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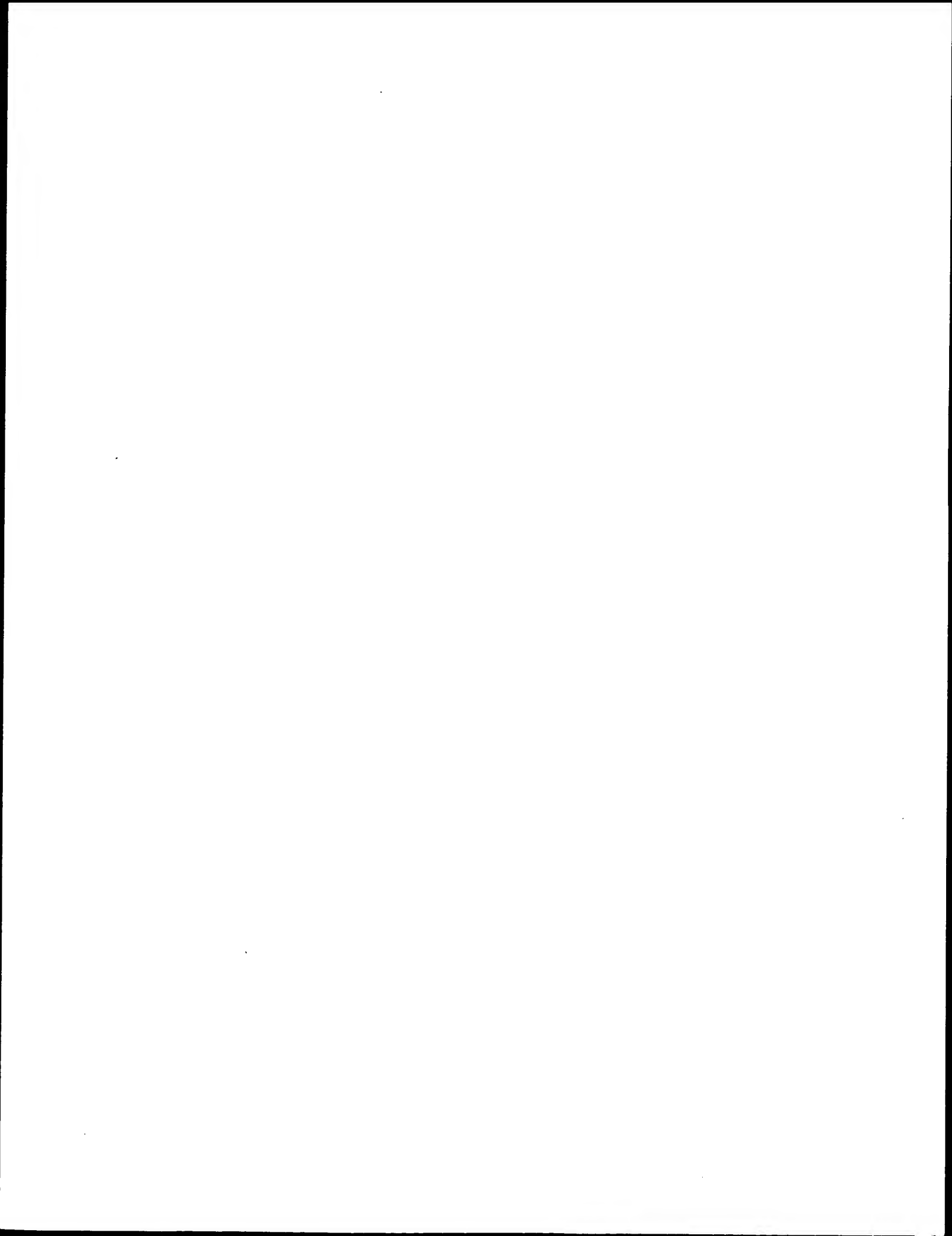
Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

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09/761116

L1 FILE 'REGISTRY' ENTERED AT 16:08:38 ON 12 JUN 2003
4786 SEA ABB=ON PLU=ON GCCTCTGGGGAG/SQSN

L2 FILE 'HCAPLUS' ENTERED AT 16:10:15 ON 12 JUN 2003
L3 666 SEA ABB=ON PLU=ON L1
2 SEA ABB=ON PLU=ON L2 AND (B3 OR BETA3 OR BETA 3) (W) (AR
OR ADRENERG?)
L4 19 SEA ABB=ON PLU=ON L2 AND TRANSCRIPTION? REGULAT?
L5 19 SEA ABB=ON PLU=ON L3 OR L4

L5 ANSWER 1 OF 19 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:409169 HCAPLUS
TITLE: Genes that are differentially expressed during
erythropoiesis and their diagnostic and
therapeutic uses
INVENTOR(S): Brissette, William H.; Neote, Kuldeep S.;
Zagouras, Panayiotis; Zenke, Martin; Lemke,
Britt; Hacker, Christine
PATENT ASSIGNEE(S): Pfizer Products Inc., USA; Max-Delbruck-Centre
for Molecular Medicine
SOURCE: PCT Int. Appl., 285 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003038130	A2	20030508	WO 2002-XA34888	20021031
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
WO 2003038130	A2	20030508	WO 2002-US34888	20021031
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2001-335048P P 20011031
US 2001-335183P P 20011102
WO 2002-US34888 A 20021031

AB The present invention provides mol. targets that regulate erythropoiesis. Groups of genes or their encoded gene products

comprise panels of the invention and may be used in therapeutic intervention, therapeutic agent screening, and in diagnostic methods for diseases and/or disorders of erythropoiesis. The panels were discovered using gene expression profiling of erythroid progenitors with Affymetrix HU6800 and HG-U95Av2 chips. Cells from an in vitro growth and differentiation system of SCF-Epo dependent human erythroid progenitors, E-cadherin+/CD36+ progenitors, cord blood, or CD34+ peripheral blood stem cells were analyzed. The HU6800 chip contains probes from 13,000 genes with a potential role in cell growth, proliferation, and differentiation and the HG-U95Av2 chip contains 12,000 full-length, functionally-characterized genes. [This abstr. record is one of two records for this document necessitated by the large no. of index entries required to fully index the document and publication system constraints.].

IT 389189-05-3, DNA (human clone lambda A3.)
 391788-88-8, DNA (human clone Qc-9D3)
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)
 (nucleotide sequence; genes that are differentially expressed during erythropoiesis and their diagnostic and therapeutic uses)

L5 ANSWER 2 OF 19 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2003:205655 HCAPLUS
 DOCUMENT NUMBER: 138:199856
 TITLE: Regulation of the pancreatic pro-endocrine gene neurogenin3. [Erratum to document cited in CA136:146041]
 AUTHOR(S): Lee, Jane C.; Smith, Stuart B.; Watada, Hirotaka; Lin, Joseph; Scheel, David; Wang, Juehu; Mirmira, Raghavendra G.; German, Michael S.
 CORPORATE SOURCE: Hormone Research Institute and the Department of Pediatrics, University of California, San Francisco, CA, 94143, USA
 SOURCE: Diabetes (2001), 50(6), 1512
 CODEN: DIAEAZ; ISSN: 0012-1797
 PUBLISHER: American Diabetes Association
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The correct spelling of Dr. Smith's name is Stuart B. Smith.
 IT 390513-25-4, GenBank AF234829
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)
 (nucleotide sequence; regulation of pancreatic pro-endocrine neurogenin3 gene in human and mouse (Erratum))

L5 ANSWER 3 OF 19 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2003:187090 HCAPLUS
 DOCUMENT NUMBER: 138:219712
 TITLE: Differentially expressed gene expression profiles in human glomerular diseases
 INVENTOR(S): Munger, William E.; Falk, Ronald; Sun, Hongwei; Sasai, Hitoshi; Waga, Iwao; Yamamoto, Jun
 PATENT ASSIGNEE(S): Gene Logic, Inc., USA; University of North Carolina At Chapel Hill
 SOURCE: PCT Int. Appl., 781 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent

09/761116

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 9
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016476	A2	20030227	WO 2002-XG25766	20020814
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				
WO 2003016476	A2	20030227	WO 2002-US25766	20020814
WO 2003016476	A3	20030508		
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				
PRIORITY APPLN. INFO.:			US 2001-311837P	P 20010814
			WO 2002-US25766	A 20020814
AB	<p>The present invention is based on the elucidation of global changes in gene expression in peripheral blood leukocytes (PBL) of patients with glomerular diseases exhibiting different types of clin. and pathol. features of glomerular nephropathy as compared to normal PBL as well as the identification of individual genes that are differently expressed in PBL of patients with glomerular diseases. The genes and gene expression information may be used as markers for the diagnosis of disease subtype, such as IgA nephropathy, Minimal Change nephrotic syndrome, antineutrophil cytoplasmic antibody-assocd. glomerulonephritis (ANCA), focal segmental glomerulosclerosis (FSGS), and lupus nephritis. The genes may also be used as markers to evaluate the effects of a candidate drug or agent on tissues, including PBLs, particularly PBLs undergoing activation or PBLs from a patient with glomerular disease. Differential expression of genes between PBLs from patients with glomerular disease and normal PBL samples was detd. using the Affymetrix 42K human gene chip set. [This abstr. record is one of nine records for this document necessitated by the large no. of index entries required to fully index the document and publication system constraints.].</p>			
L5	ANSWER 4 OF 19 HCAPLUS COPYRIGHT 2003 ACS			
ACCESSION NUMBER:	2002:696159 HCAPLUS			
DOCUMENT NUMBER:	137:246071			
TITLE:	Gene expression profiles relating to normal and			

09/761116

INVENTOR(S): osteoarthritic cartilage
Liew, Choong-Chin; Marshall, Wayne E.; Zhang,
Hongwei
PATENT ASSIGNEE(S): Chondrogene Inc., Can.
SOURCE: PCT Int. Appl., 777 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002070737	A2	20020912	WO 2002-CA247	20020228
WO 2002070737	C1	20021031		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,
SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

PRIORITY APPLN. INFO.:

US 2001-271955P P 20010228
US 2001-275017P P 20010312
US 2001-305340P P 20010713

AB The invention provides gene expression profiles comprising one or more polynucleotide sequences that are expressed in chondrocytes from any of the following developmental and disease stages: fetus, normal adult, mild osteoarthritis, moderate osteoarthritis, marked osteoarthritis, and severe osteoarthritis. Complementary DNA libraries were constructed from human fetal, normal, mild osteoarthritic and severe osteoarthritic cartilage samples (13,398, 17,151, 12,651, and 14,222 expressed sequence tags (ESTs), resp.). The known and novel clones derived from these libraries were then used to construct human chondrocyte-specific microarrays to generate differential gene expression profiles useful as a diagnostic tools for detection of osteoarthritis. A total of 5807 expressed gene sequences are provided and matched to known gene sequences, other ESTs, or mitochondrial, ribosomal, vector, and cDNA/hypothetical protein sequences in the public databases. Arrays of the invention are useful as a gold std. for osteoarthritis diagnosis and for use to identify and monitor therapeutic efficacy of new drug targets.

IT 227594-62-9, DNA (human gene KvLQT1 plus gene KvLQT1)

258491-28-0 266660-95-1 267626-85-7, DNA

(human gene GLP plus flanks) 385252-57-3

392013-60-4, GenBank AC002400

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; gene expression profiles relating to normal and osteoarthritic cartilage)

L5 ANSWER 5 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:611070 HCAPLUS

Correction of: 2002:158040

Searcher : Shears 308-4994

09/761116

DOCUMENT NUMBER: 137:120745
 Correction of: 136:195361
 TITLE: Stress-regulated genes of Arabidopsis thaliana and generation and uses of transgenic plants containing them
 INVENTOR(S): Harper, Jeffrey F.; Kreps, Joel; Wang, Xun; Zhu, Tong
 PATENT ASSIGNEE(S): The Scripps Research Institute, USA; Syngenta Participations A.-G.
 SOURCE: PCT Int. Appl., 577 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002016655	A2	20020228	WO 2001-US26685	20010824
WO 2002016655	C2	20030109		
WO 2002016655	A3	20030313		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001086811	A5	20020304	AU 2001-86811	20010824
US 2002160378	A1	20021031	US 2001-938842	20010824
EP 1313867	A2	20030528	EP 2001-966283	20010824
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2000-227866P	P 20000824
			US 2001-264647P	P 20010126
			US 2001-300111P	P 20010622
			WO 2001-US26685	W 20010824
AB The present invention relates to clusters of plant genes that are regulated in response to one or more stress conditions, including cold stress, osmotic stress, and saline stress. The present invention also relates to isolated plant stress-regulated genes, including portions thereof comprising a coding sequence or a regulatory element, and to consensus sequences comprising a plant stress-regulated regulatory element. A GeneChip.tautm. Arabidopsis Genome Array was used to identify clusters of genes that were coordinately induced in response to various stress conditions, using probes synthesized in situ designed to measure temporal and spatial gene expression of .apprx.8700 genes in greater than 100 EST clusters. Of the .apprx.8700 nucleotides sequences represented on the array, 2862 nucleotide sequences showed at least a 2-fold change in expression in at least one sample relative to no-treatment controls in A. thaliana. In addn., the invention relates to a recombinant polynucleotide, which includes a plant stress-regulated gene, or functional portion thereof, operatively linked to a				

heterologous nucleotide sequence. The invention further relates to a transgenic plant, which contains a plant stress-regulated gene or functional portion thereof that was introduced into a progenitor cell of the plant. In addn., the invention relates to methods of using a plant stress-regulated gene to confer upon a plant a selective advantage to a stress condition. The invention also relates to a method of identifying an agent that modulates the activity of a plant stress-regulated regulatory element.

L5 ANSWER 6 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:505738 HCAPLUS

DOCUMENT NUMBER: 137:258374

TITLE: The p66Shc longevity gene is silenced through epigenetic modifications of an alternative promoter

AUTHOR(S): Ventura, Andrea; Luzi, Lucilla; Pacini, Sonia; Baldari, Cosima T.; Pelicci, Pier Giuseppe

CORPORATE SOURCE: Department of Experimental Oncology, European Institute of Oncology, Milan, 20141, Italy

SOURCE: Journal of Biological Chemistry (2002), 277(25), 22370-22376

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The mammal Shc locus encodes three overlapping isoforms (46, 52, and 66 kDa) that differ in the length of their N-terminal regions. P46/p52Shc and p66Shc have been implicated, resp., in the cytoplasmic propagation of growth and apoptogenic signals. Levels of p66Shc expression correlate with life span duration in mice. P46Shc and p52Shc are ubiquitously expressed, whereas p66Shc is expressed in a cell lineage-specific fashion. However, the mechanisms underlying the regulation of Shc protein expression are unknown. Here we report the identification of two alternative promoters, driving the transcription of two mRNAs coding for p46/p52Shc and p66Shc. We show that treatment with an inhibitor of histone deacetylases or with a demethylating agent results in induction of p66Shc expression in cells that normally do not express this isoform but leaves the levels of the two other isoforms unchanged. Moreover, anal. of the methylation pattern of the p66Shc promoter in a panel of primary and immortalized human cells showed inverse correlation between p66Shc expression and methylation d. of its promoter. These results identify histone deacetylation and cytosine methylation as the mechanisms underlying p66Shc silencing in nonexpressing cells.

IT 434273-42-4, GenBank AF455140

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; p66Shc longevity gene is silenced through epigenetic modifications of an alternative promoter)

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:483007 HCAPLUS

DOCUMENT NUMBER: 137:42660

09/761116

TITLE: Protein, gene and cDNA sequence of human and mouse Box-dependent Myc-interacting protein (Bin1) and uses in cancer diagnosis
 INVENTOR(S): Prendergast, George C.; Sakamuro, Daitoku
 PATENT ASSIGNEE(S): The Wistar Institute of Anatomy and Biology, USA
 SOURCE: U.S., 64 pp., Cont.-in-part of U. S. 6,048,702.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6410238	B1	20020625	US 1999-445247	19991203
US 6048702	A	20000411	US 1997-870126	19970606
WO 9855151	A1	19981210	WO 1998-US11647	19980604

W: AU, CA, JP, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.:
 US 1997-870126 A2 19970606
 WO 1998-US11647 W 19980604
 US 1995-435454 A2 19950505
 US 1996-652972 A2 19960524

AB The present invention provides human Bin1 genomic sequences and proteins encoded thereby. Also provided are compns. and methods utilizing these sequences and proteins in the diagnosis and treatment of cancers and hyperplastic disease states. Further provided are oligonucleotides derived from sequences encoding Bin1, as well as compns. and methods utilizing same for diagnostic and therapeutic purposes. The invention also relates to protein and cDNA sequence of human and mouse Box-dependent Myc-interacting protein (Bin1). The invention demonstrated that the assocn. between GST-Bin1 fusion protein and Myc was both specific and physiol. relevant, since it depended upon the presence of the Myc boxes. A set of deletion mutant of Bin1 was constructed to study the inhibition of Bin1 on oncogenic effect of transcription factor E1A and mutant p53 protein. The domains required to inhibit E1A and mutant p53 were overlapping, but distinct, and in each case different from those required to block Myc, implying that Bin1 could inhibit Myc-independent transformation through two mechanisms that required U1 or the SH3 domain, resp. In normal cells where growth is regulated, Bin1 is located primarily in the nucleoplasm but a fraction of the protein is located in a subnuclear punctate compartment(s). However, in tumor cells, where growth is deregulated, the punctate localization predominates, suggesting that Bin1 localization is assocd. with growth regulatory capability.

IT 438516-84-8

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(nucleotide sequence; protein, gene and cDNA sequence of human and mouse Box-dependent Myc-interacting protein (Bin1) and uses in cancer diagnosis)

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

09/761116

L5 ANSWER 8 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:501197 HCAPLUS
DOCUMENT NUMBER: 138:181862
TITLE: Regulation of the pancreatic pro-endocrine gene
Neurogenin3. [Erratum to document cited in
CA136:146041]
AUTHOR(S): Lee, Jane C.; Smith, Stewart B.; Watada,
Hirotaka; Lin, Joseph; Scheel, David; Wang,
Juehu; Mirmira, Reghavendra G.; German, Michael
S.
CORPORATE SOURCE: Hormone Research Institute and the Department
of Pediatrics, University of California, San
Francisco, CA, 94143, USA
SOURCE: Diabetes (2001), 50(7), 1675
CODEN: DIAEAZ; ISSN: 0012-1797
PUBLISHER: American Diabetes Association
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The authors would like to acknowledge receipt of the National
Institutes of Health Grant DK07161 (to J.C.L.).

IT 390513-25-4, GenBank AF234829

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)
(regulation of pancreatic pro-endocrine neurogenin3 gene in human
and mouse (Erratum))

L5 ANSWER 9 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:490372 HCAPLUS
DOCUMENT NUMBER: 136:146041
TITLE: Regulation of the pancreatic pro-endocrine gene
neurogenin3
AUTHOR(S): Lee, Jane C.; Smith, Stewart B.; Watada,
Hirotaka; Lin, Joseph; Scheel, David; Wang,
Juehu; Mirmira, Raghavendra G.; German, Michael
S.
CORPORATE SOURCE: Hormone Research Institute and the Department of
Pediatrics, University of California, San
Francisco, CA, 94143, USA
SOURCE: Diabetes (2001), 50(5), 928-936
CODEN: DIAEAZ; ISSN: 0012-1797
PUBLISHER: American Diabetes Association
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Neurogenin3 (ngn3), a basic helix-loop-helix (bHLH) transcription
factor, functions as a pro-endocrine factor in the developing
pancreas: by itself, it is sufficient to force undifferentiated
pancreatic epithelial cells to become islet cells. Because ngn3
expression directs which precursor cells will differentiate into islet
cells, the signals that regulate ngn3 expression control islet cell
formation. To investigate the factors that control ngn3 gene
expression, we mapped the human and mouse ngn3 promoters and
delineated transcriptionally active sequences within the human
promoter. Surprisingly, the human ngn3 promoter drives
transcription in all cell lines tested, including fibroblast cell
lines. In contrast, in transgenic animals the promoter drives
expression specifically in regions of ngn3 expression in the
developing pancreas and gut; and the addition of distal sequences
greatly enhances transgene expression. Within the distal enhancer,

binding sites for several pancreatic transcription factors, including hepatocyte nuclear factor (HNF)-1 and HNF-3, form a tight cluster. HES1, an inhibitory bHLH factor activated by Notch signaling, binds to the proximal promoter and specifically blocks promoter activity. Together with previous genetic data, these results suggest a model in which the *ngn3* gene is activated by the coordinated activities of several pancreatic transcription factors and inhibited by Notch signaling through HES1.

IT 390513-25-4, GenBank AF234829

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; regulation of pancreatic pro-endocrine neurogenin3 gene in human and mouse)

REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:322774 HCAPLUS

DOCUMENT NUMBER: 136:49212

TITLE: Expression of the human **.beta.3-adrenergic** receptor gene in SK-N-MC cells is under the control of a distal enhancer

AUTHOR(S): Susulic, Vedrana S.; LaVallette, Lucille; Duzic, Emir; Chen, Liang; Shuey, David; Karathanasis, Sotirios K.; Steiner, Kurt E.

CORPORATE SOURCE: Metabolic Diseases Department, Wyeth-Ayerst Laboratories, Inc., Princeton, NJ, 08543, USA

SOURCE: Endocrinology (2001), 142(5), 1935-1949

CODEN: ENDOAO; ISSN: 0013-7227

PUBLISHER: Endocrine Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Mechanisms of **transcriptional regulation** of the human **.beta.3-adrenergic** receptor were studied using SK-N-MC cells, a human neuroblastoma cell line that expresses **.beta.3-** and **.beta.1-adrenergic** receptors endogenously. Deletions spanning different portions of a 7-kb 5'-flanking region of the human **.beta.3-adrenergic** receptor gene were linked to a luciferase reporter and transfected in SK-N-MC, CV-1, and HeLa cells. Maximal luciferase activity was obsd. when a 200-bp region located between -6.5 and -6.3 kb from the translation start site was present. This region functioned only in SK-N-MC cells. Electrophoretic mobility shift assays of nuclear exts. from SK-N-MC, CV-1, and HeLa cells using double stranded oligonucleotides spanning different portions of the 200-bp region as probes and transient transfection studies revealed the existence of three cis-acting regulatory elements: -6.468 kb-AGGTGGACT- -6.458 kb, -6.448 kb-GCCTCTCTGGGGAGCAGCTTCTCC-6.428 kb, and -6.405 kb-20 repeats of CCTT-6.385 kb. These elements act together to achieve full transcriptional activity. Mutational anal., antibody supershift, and electrophoretic mobility shift assay competition expts. indicated that element A binds the transcription factor Sp1, element B binds protein(s) present only in nuclear exts. from SK-N-MC cells and brown adipose tissue, and element C binds protein(s) present in both SK-N-MC and HeLa cells. In addn., element C exhibits characteristics of an S1 nuclease-hypersensitive

site. These data indicate that cell-specific pos. cis-regulatory elements located 6.5 kb upstream from the translation start site may play an important role in **transcriptional regulation** of the human **.beta.3-adrenergic** receptor. These data also suggest that brown adipose tissue-specific transcription factor(s) may be involved in the tissue-specific expression of the **.beta.3-adrenergic** receptor gene.

IT 336679-97-1, GenBank AF359565

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(expression of the human **.beta.3-adrenergic** receptor gene in SK-N-MC cells is under the control of a distal enhancer)

REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 11 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:824895 HCAPLUS

DOCUMENT NUMBER: 135:132953

TITLE: The gene encoding rat 3-phosphoglycerate dehydrogenase

AUTHOR(S): Robbi, Mariette; Achouri, Younes; Szpirer, Claude; Van Schaftingen, Emile

CORPORATE SOURCE: Laboratoire de Chimie Physiologique, Christian de Duve Institute of Cellular Pathology and Universite Catholique de Louvain, Brussels, B-1200, Belg.

SOURCE: Mammalian Genome (2000), 11(11), 1034-1036
CODEN: MAMGEC; ISSN: 0938-8990

PUBLISHER: Springer-Verlag New York Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The enzyme 3-phosphoglycerate dehydrogenase (PHGDH) catalyzes the first step in serine biosynthesis and is present in prokaryotes and eukaryotes. There is some evidence for **transcriptional regulation** of the gene for PHGDH in rat liver and in proliferating cells. The authors have cloned and sequenced genomic DNA which encodes the rat 3-phosphoglycerate dehydrogenase gene (Phgdh) and about 5 kb of upstream DNA. Thirteen exons were identified, including an exon 1' which is only expressed in testis due to RNA splicing and does not affect the amino acid sequence. A no. of transcription start sites were identified that were not tissue-specific or suggestive of more than one promoter. The rat gene Phgdh was mapped to 2q34 using mouse x rat cell hybrids and FISH (fluorescence in situ hybridization). The 5'-flanking region was analyzed for promoter activity by transfecting FTO2B hepatoma cells with rat gene Phgdh DNA fragments fused to a luciferase reporter gene. A region with promoter activity was identified between nucleotides -1560 and -765.

IT 263952-68-7, GenBank AJ271975

RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)

(nucleotide sequence; of genomic DNA encoding rat 3-phosphoglycerate dehydrogenase)

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE

09/761116

FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L5 ANSWER 12 OF 19 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:564473 HCAPLUS
DOCUMENT NUMBER: 134:66939
TITLE: Alternative exon usage of rat septins
AUTHOR(S): Jackisch, Bjorn-Oliver; Hausser, Heinz;
Schaefer, Liliana; Kappler, Joachim; Muller,
Hans Werner; Kresse, Hans
CORPORATE SOURCE: Department of Internal Medicine, Institute of
Physiological Chemistry and Pathobiochemistry,
University of Munster, Munster, D-48149, Germany
SOURCE: Biochemical and Biophysical Research
Communications (2000), 275(1), 180-188
CODEN: BBRCA9; ISSN: 0006-291X
PUBLISHER: Academic Press
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Septins represent a family of phylogenetically conserved proteins
required for cytokinesis. Their presence in pre- and postsynaptic
neuronal membranes suggests a general function as scaffolds for
membrane reorganization. The **transcriptional**
regulation of all septins examd. so far is complex,
resulting in alternatively spliced variants. We focus here on the
rat homolog of the gene for the human septin MSF, a truncated form
of which, designated esepitin, had been described previously. It
will be shown here that there is an alternative usage of the first
exon by two forms, named exon r1a and r1b, resp. Exon r1a, but not
exon r1b, contains a part of the coding sequence while the start of
translation for the remaining coding sequence resides in the second
exon. The complete genomic organization was resolved and data on
the temporal and spatial expression of this septins are presented.
(c) 2000 Academic Press.
IT **244895-16-7**, GenBank AF170253 **244895-31-6**, GenBank
AF173899
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)
(nucleotide sequence; alternative exon usage of rat septins)
REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L5 ANSWER 13 OF 19 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:535280 HCAPLUS
DOCUMENT NUMBER: 133:145940
TITLE: **Transcriptional regulation**
of the human **.beta.3-**
adrenergic receptor gene
INVENTOR(S): Susulic, Vedrana S.; Duzic, Emir
PATENT ASSIGNEE(S): American Home Products Corporation, USA
SOURCE: PCT Int. Appl., '88 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

09/761116

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000044901	A1	20000803	WO 2000-US2632	20000201
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6197580	B1	20010306	US 1999-243335	19990201
CA 2360064	AA	20000803	CA 2000-2360064	20000201
EP 1147191	A1	20011024	EP 2000-905905	20000201
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002535005	T2	20021022	JP 2000-596143	20000201
US 2002102552	A1	20020801	US 2001-761116	20010116
PRIORITY APPLN. INFO.:			US 1999-243335	A 19990201
			WO 2000-US2632	W 20000201
AB	<p>The present invention relates to a pos. cis-regulatory (enhancer) element and trans-acting (activating) factor for the transcriptional regulation of human .beta.3-adrenergic receptor (.beta.3-AR) gene. A region localized between -6.50 and -6.30 kb of the proximal promoter contg. three segments that act synergistically to achieve full transcriptional activity is identified as the regulatory elements responsible for tissue-specific transcriptional regulation of human .beta.3-AR. One segment, termed segment A, contains an Spl binding site. Another of the sequences, termed segment B, is a binding site for a trans-acting factor present in cells that constitutively express .beta.3-AR. The third segment, C, is an S1 nuclease-sensitive site having CCTT repeats. In a specific embodiment, the trans-acting factor is expressed in neuroblastoma (SK-N-MC) and brown adipose tissue cells, but little or not at all in CV-1, HeLa, or white adipose tissue cells. Recombinant vectors under control of this transcriptional regulation region, particularly contg. the B and C segments, provide a substrate for high throughput assays, such as reporter gene assays, to identify compds. that can increase the level of expression of .beta.3-AR. The B segment nucleic acids also provide for isolation and cloning of the trans-acting factor. Mechanisms of transcriptional regulation and identification of other adjacent proteins involved in the regulation of the h..beta.3-AR gene expression are provided.</p>			
IT	<p>287496-21-3 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (S1 nuclease sensitive site of h..beta.3-AR gene; transcriptional regulation of human .beta.3-adrenergic receptor gene)</p>			
IT	<p>287496-35-9</p>			

09/761116

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; **transcriptional regulation** of human **.beta.3-adrenergic** receptor gene)

IT 287496-84-8 287496-89-3 287496-90-6
287496-91-7

RL: PRP (Properties)
(unclaimed nucleotide sequence; **transcriptional regulation** of the human **.beta.3-adrenergic** receptor gene)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 14 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:405968 HCAPLUS

DOCUMENT NUMBER: 133:318161

TITLE: A 66-Base-Pair Enhancer Module Activates the Expression of a Distinct Isoform of UDP-glucuronosyltransferase Family 1 (UGT1A2) in Primary Hepatocytes

AUTHOR(S): Emi, Yoshikazu; Ohnishi, Aki; Kajimoto, Takahiro; Ikushiro, Shin-ichi; Iyanagi, Takashi
CORPORATE SOURCE: Department of Life Science, Himeji Institute of Technology, Hyogo, 678-1297, Japan

SOURCE: Archives of Biochemistry and Biophysics (2000), 378(2), 384-392
CODEN: ABBIA4; ISSN: 0003-9861

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB UGT1A2, an isoform of the UDP-glucuronosyltransferase family 1 (UGT1), is not expressed in the rat liver, but its expression was highly induced in primary cultures of rat hepatocytes. In primary hepatocytes that had been cultured for 70 h, the amt. of UGT1A2 mRNA was 100 times higher than that in the rat liver. Deletion anal. of a 4.8-kb promoter region of the UGT1A2 gene revealed that a 66-nucleotide region between -307 and -242 upstream of the transcription start site was required for induction of UGT1A2 expression. The 66-nucleotide region acted on a heterologous promoter in a manner independent of its position and orientation in reporter constructs. Gel mobility shift assay showed that a specific binding protein to this region appeared in the nuclei of cultured hepatocytes, but was not present in the rat liver. DNase I protection anal. revealed the existence of a CTGGCAC core sequence between -274 and -268 of the UGT1A2 promoter. Methylation interference assay showed that the guanine residues at -294 and -287 on the upper strand and the guanine residue at -267 on the lower strand as well as the core sequence were required for the DNA-protein interaction. These results suggest that the 66-nucleotide region, which was designated culture-assocd. expression responsive enhancer module (CEREM), interacts with a specific nuclear protein and enhances the expression of UGT1A2 in cultured hepatocytes. (c) 2000 Academic Press.

IT 261334-62-7, GenBank AB025923

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL

09/761116

(Biological study)

(nucleotide sequence; 66-Base-Pair Enhancer Module Activates
Expression of Distinct Isoform of UDP-glucuronosyltransferase
Family 1 (UGT1A2) in Primary Hepatocytes)

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L5 ANSWER 15 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:134182 HCAPLUS

DOCUMENT NUMBER: 132:304235

TITLE: Characterization of the c-specific promoter of
the gene encoding human endothelin-converting
enzyme-1 (ECE-1)

AUTHOR(S): Funke-Kaiser, H.; Bolbrinker, J.; Theis, S.;
Lemmer, J.; Richter, C.-M.; Paul, M.;
Orzechowski, H.-D.

CORPORATE SOURCE: Institute of Clinical Pharmacology and
Toxicology, Benjamin Franklin Medical Center,
Freie Universitat Berlin, Berlin, 12200, Germany

SOURCE: FEBS Letters (2000), 466(2,3), 310-316

CODEN: FEBLAL; ISSN: 0014-5793

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Human ECE-1 is expressed in four isoforms with different tissue
distribution and its mRNA and protein levels are altered under
certain pathophysiol. conditions. To investigate the
transcriptional regulation of ECE-1, we studied
the regulatory region of ECE-1c, the major ECE-1 isoform. A genomic
clone comprising the complete human ECE-1 gene including the
putative ECE-1c-specific promoter was obtained. Up to 968 bp
upstream of the putative c-specific translation initiation start
codon and several serial deletion mutants were subcloned into a
reporter vector and transfected into endothelial (BAEC, EA.hy926,
ECV304) and epithelial (MDA MB435S, MCF7) cells, showing very strong
promoter activity in comparison to the SV40 promoter and to the
previously described ECE-1a and 1b promoters. Transfection of
serial deletion mutants indicated two pos. regulatory regions within
the promoter (-142/-240 and -240/490) likely involved in binding
GATA and ETS transcription factors. RNase protection assay (RPA)
and 5'-RACE revealed multiple transcriptional start sites located at
about -110, -140 and -350 bp. Site-directed mutagenesis
demonstrated a crucial role for the E2F cis-element for basal ECE-1c
promoter activity. Addnl., we found a correlation between
isoform-specific ECE-1 mRNA levels and corresponding ECE-1a, 1b, 1c
promoter activities.

IT 217120-85-9, GenBank AL031728

RL: BPR (Biological process); BSU (Biological study, unclassified);
PRP (Properties); BIOL (Biological study); PROC (Process)

(nucleotide sequence; characterization of c-specific promoter of
the gene encoding human endothelin-converting enzyme-1)

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L5 ANSWER 16 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:784257 HCAPLUS

09/761116

DOCUMENT NUMBER: 132:31783
 TITLE: Sequence of human homologue of unc-53 protein of
 C. elegans with therapeutic applications
 INVENTOR(S): Luyten, Walter Herman Maria Louis; De
 Raeymaeker, Marc Carl; Geysen, Johan Jozef
 Gustave Hendrik; Bogaert, Thierry A. O. E.;
 Maerten, Luc Jacques Simon; Verhasselt, Peter;
 Van de Craen, Marc
 PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.
 SOURCE: PCT Int. Appl., 147 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9963080	A1	19991209	WO 1999-EP3848	19990602
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2330179	AA	19991209	CA 1999-2330179	19990602
AU 9943735	A1	19991220	AU 1999-43735	19990602
EP 1092019	A1	20010418	EP 1999-926511	19990602
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			GB 1998-11962	A 19980603
			WO 1999-EP3848	W 19990602
AB There is disclosed human homologues of the UNC-53 protein of C. elegans and cDNA sequences coding for said homologues or functional equiv. thereof. The invention also relates to processes for identifying compds. which control cell behavior, compds. identified and pharmaceutical compns. contg. them in addn. to processes and assays for identifying disease states in which said gene or protein is dysfunctional. The UNC-53 protein is differentially expressed in different parts of the brain. Splice variants of UNC-53 protein were found also. A non-silent single nucleotide polymorphism in Hunc-53/1 in position 1232 and in Hs-unc-53/2 in position 929 was found. This indicates that variations exist in human unc-53s which-in some cases- may be relevant to the proper functioning of the UNC-53 protein and hence in disease. Alternative 5'-start exons were also found. This gene Hs-UNC-53/2 is located on human chromosome 11. The hs-unc-53/3 gene was mapped on chromosome 12q21.1. F-actin reorganization and microtubule binding of Hs-UNC-53/3 was reported also. Compd. screens which affect the function of human UNC-53 protein were measured by lamellipodia formation. Transgenic systems for expression of this protein are reported to alter cell migration by creating a mutation in the UNC-53 protein. Methods as described above and manuf. of a medicament for promoting neuronal regeneration, revascularization, wound healing, or treatment of chronic neurodegenerative diseases or				

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acute traumatic injuries or fibrotic disease or autoimmune diseases such as rheumatoid arthritis and sclerosis. Methods to screen for other proteins involved in signal transduction are provided. Antisense RNA and DNA are also given.

IT 252323-74-3

RL: PRP (Properties)

(unclaimed sequence; sequence of human homolog of unc-53 protein of *C. elegans* with therapeutic applications)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 17 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:800726 HCAPLUS

DOCUMENT NUMBER: 128:124353

TITLE: Structural analysis of the human BIN1 gene.

Evidence for tissue-specific
transcriptional regulation and
alternate RNA splicing

AUTHOR(S): Wechsler-Reya, Robert; Sakamuro, Daitoku; Zhang, Jing; Duhadaway, James; Prendergast, George C.

CORPORATE SOURCE: The Wistar Institute, Philadelphia, PA, 19104, USA

SOURCE: Journal of Biological Chemistry (1997), 272(50), 31453-31458

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB BIN1 is a putative tumor suppressor that was identified through its interaction with the MYC oncoprotein. To begin to identify elements of BIN1 whose alteration may contribute to malignancy, we cloned and characterized the human BIN1 gene and promoter. Nineteen exons were identified in a region of >54 kilobases, six of which were alternately spliced in a cell type-specific manner. One alternately spliced exon encodes part of the MYC-binding domain, suggesting that splicing controls the MYC-binding capacity of BIN1 polypeptides. Four other alternately spliced exons encode amphiphysin-related sequences that were included in brain-specific BIN1 species, also termed amphiphysin isoforms or amphiphysin II. The 5'-flanking region of BIN1 is GC-rich and lacks a TATA box but directs transcriptional initiation from a single site. A .apprx.0.9-kilobase fragment from this region was sufficient for basal transcription and transactivation by MyoD, which may account for the high levels of BIN1 obsd. in skeletal muscle. This study lays the foundation for genetic and epigenetic investigations into the role of BIN1 in normal and neo-plastic cell regulation.

IT 202053-19-8

RL: PRP (Properties)

(nucleotide sequence; structural anal. of the human BIN1 gene: evidence for tissue-specific **transcriptional regulation** and alternate RNA splicing)

L5 ANSWER 18 OF 19 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:429941 HCAPLUS

DOCUMENT NUMBER: 125:134562

TITLE: Characterization of msim, a murine homolog of

AUTHOR(S): the Drosophila sim transcription factor
 Moffett, Peter; Dayo, Mabel; Reece, Mark;
 CORPORATE SOURCE: McCormick, Mary Kay; Pelletier, Jerry
 Dep. of Biochemistry and McGill Cancer Center,
 McGill Univ., Montreal, QC, H3G 1Y6, Can.
 SOURCE: Genomics (1996), 35(1), 144-155
 CODEN: GNMCEP; ISSN: 0888-7543
 PUBLISHER: Academic
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Mutations in the Drosophila single-minded (sim) gene result in loss of precursor cells that give rise to midline cells of the embryonic central nervous system. During the course of an exon-trapping strategy aimed at identifying transcripts that contribute to the etiol. and pathophysiol. of Down syndrome, we identified a human exon from the Down syndrome crit. region showing significant homol. to the Drosophila sim gene. Using a cross-hybridization approach, we have isolated a murine homolog of the Drosophila sim gene, which we designated msim. Nucleotide and predicted amino acid sequence analyses of msim cDNA clones indicate that this gene encodes a member of the basic-helix-loop-helix class of transcription factors. The murine and Drosophila proteins share 88% residues within the basic-helix-loop-helix domain, with an overall homol. of 92%. In addn., the N-terminal domain of MSIM contains two PAS dimerization motifs also featured in the Drosophila sim gene product, as well as a small no. of other transcription factors. Northern blot anal. of adult murine tissues revealed that the msim gene produces a single mRNA species of .apprx.4 kb expressed in a small no. of tissues, with the highest levels in the kidneys and lower levels present in skeletal muscle, lung, testis, brain, and heart. In situ hybridization expts. demonstrate that msim is also expressed in early fetal development in the central nervous system and in cartilage primordia. The characteristics of the msim gene are consistent with its putative function as a **transcriptional regulator**.

IT 177643-91-3, GenBank U42554
 RL: BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
 (nucleotide sequence; and mapping of mouse gene msim, the human homolog of which maps to the Down syndrome crit. region)

L5 ANSWER 19 OF 19 HCAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 1996:152631 HCAPLUS
 DOCUMENT NUMBER: 124:256565
 TITLE: Expression patterns of two murine homologs of Drosophila single-minded suggest possible roles in embryonic patterning and in the pathogenesis of Down syndrome

AUTHOR(S): Fan, Chen-Ming; Kuwana, Ellen; Bulfone, Alessandro; Fletcher, Colin F.; Copeland, Neal G.; Jenkins, Nancy A.; Crews, Stephen; Martinez, Salvador; Puelles, Luis; et al.

CORPORATE SOURCE: Howard Hughes Med. Inst., Univ. California, San Francisco, CA, 94143-0452, USA

SOURCE: Molecular and Cellular Neuroscience (1996), 7(1), 1-16
 CODEN: MOCNED; ISSN: 1044-7431

09/761116

PUBLISHER: Academic
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The single-minded (sim) gene encodes a **transcriptional regulator** that functions as a key determinant of central nervous system (CNS) midline development in *Drosophila*. The authors report here the identification of two murine homologs of sim, Sim1 and Sim2, whose products show a high degree of sequence conservation with *Drosophila* SIM in their amino-terminal halves, with each contg. a basic helix-loop-helix domain as well as a PAS domain. Sim1 maps to the proximal region of mouse chromosome 10, whereas Sim2 maps to a portion of the distal end of chromosome 16 that is syntenic to the Down syndrome crit. region of human chromosome 21. Recent exon-trapping studies have identified in the crit. region several exons of a human sim homolog which appears to be the homolog of murine Sim2; this has led to the hypothesis that increased dosage of this sim homolog in cases of trisomy 21 might be a causal factor in the pathogenesis of Down syndrome. The authors have examd. the expression patterns of the Sim genes during embryogenesis. Both genes are expressed in dynamic and selective fashion in specific neuromeric compartments of the developing forebrain, and the expression pattern of Sim2 provides evidence for early regionalization of the diencephalon prior to any overt morphol. differentiation in this region. Outside the CNS, Sim1 is expressed in mesodermal and endodermal tissues, including developing somites, mesonephric duct, and foregut. Sim2 is expressed in facial and trunk cartilage, as well as trunk muscles. Both murine Sim genes are also expressed in the developing kidney. The data suggest that the Sim genes play roles in directing the regionalization of tissues where they are expressed. Moreover, the expression pattern documented for Sim2 may provide insights into its potential roles in Down syndrome.

IT 174098-94-3, GenBank U40576

RL: PRP (Properties)

(nucleotide sequence; developmental expression, chromosomal localization, and cDNA sequence of Sim1 and Sim2 genes of mouse)

E1 THROUGH E27 ASSIGNED

FILE 'REGISTRY' ENTERED AT 16:13:28 ON 12 JUN 2003

L6 27 SEA FILE=REGISTRY ABB=ON PLU=ON (390513-25-4/BI OR
174098-94-3/BI OR 177643-91-3/BI OR 202053-19-8/BI OR
217120-85-9/BI OR 227594-62-9/BI OR 244895-16-7/BI OR
244895-31-6/BI OR 252323-74-3/BI OR 258491-28-0/BI OR
261334-62-7/BI OR 263952-68-7/BI OR 266660-95-1/BI OR
267626-85-7/BI OR 287496-21-3/BI OR 287496-35-9/BI OR
287496-84-8/BI OR 287496-89-3/BI OR 287496-90-6/BI OR
287496-91-7/BI OR 336679-97-1/BI OR 385252-57-3/BI OR
389189-05-3/BI OR 391788-88-8/BI OR 392013-60-4/BI OR
434273-42-4/BI OR 438516-84-8/BI)

=> s 16 and 11

L7 27 L6 AND L1

L7 ANSWER 1 OF 27 REGISTRY COPYRIGHT 2003 ACS

RN 438516-84-8 REGISTRY

CN DNA (human gene Bin1 exon 7-12A plus flanks) (9CI) (CA INDEX NAME)

Searcher : Shears 308-4994

09/761116

OTHER NAMES:

CN 11: PN: US6410238 SEQID: 11 claimed DNA
SQL 8051
MF Unspecified
CI MAN

REFERENCE 1: 137:42660

L7 ANSWER 2 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 434273-42-4 REGISTRY
CN DNA (mouse strain 129/SvJ Src homolog 2 domain-containing
transforming protein 1 isoform p66 gene plus Src homolog 2
domain-containing transforming protein 1 isoform p52 gene) (9CI)
(CA INDEX NAME)

OTHER NAMES:

CN GenBank AF455140
SQL 5178
MF Unspecified
CI MAN

REFERENCE 1: 137:258374

L7 ANSWER 3 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 392013-60-4 REGISTRY
CN GenBank AC002400 (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3: PN: WO03008647 TABLE: 13b unclaimed DNA
CN 507: PN: WO02070737 FIGURE: 6 unclaimed DNA
SQL 138839
MF Unspecified
CI MAN

REFERENCE 1: 138:148639

REFERENCE 2: 137:246071

L7 ANSWER 4 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 391788-88-8 REGISTRY
CN DNA (human clone Qc-9D3) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1011: PN: WO0224956 FIGURE: 5 claimed DNA
CN 15: PN: WO03027633 TABLE: 6 unclaimed DNA
CN 967: PN: WO03003906 TABLE: 5A unclaimed DNA
CN DNA (human clone QLL-D9139, Qc-7G12, Qc-7C1, Qc-12B2, Qc-12D5,
QLL-A074, Qc-9D3)
CN GenBank U52112
SQL 181343
MF Unspecified
CI MAN

REFERENCE 1: 138:283693

REFERENCE 2: 138:266967

REFERENCE 3: 138:266966

REFERENCE 4: 138:266965

09/761116

REFERENCE 5: 138:168793

REFERENCE 6: 138:168236

REFERENCE 7: 138:67954

REFERENCE 8: 138:50950

REFERENCE 9: 137:347543

REFERENCE 10: 137:45438

L7 ANSWER 5 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 390513-25-4 REGISTRY
CN DNA (human gene ngn3 plus flanks) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN DNA (human neurogenin-3 gene ngn3 plus flanks)
CN GenBank AF234829
SQL 5340
MF Unspecified
CI MAN

REFERENCE 1: 138:199856

REFERENCE 2: 138:181862

REFERENCE 3: 136:146041

L7 ANSWER 6 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 389189-05-3 REGISTRY
CN DNA (human clone lambda A3.) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2102: PN: WO02059377 TABLE: 13 claimed DNA
CN 921: PN: WO0224956 FIGURE: 4 claimed DNA
CN DNA (human clone lambda A3. aldolase A gene)
CN GenBank X12447
SQL 7530
MF Unspecified
CI MAN

REFERENCE 1: 137:244289

REFERENCE 2: 137:45438

L7 ANSWER 7 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 385252-57-3 REGISTRY
CN DNA (human clone HG3925 gene KIAA0537 protein kinase cDNA plus flanks) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 118: PN: WO02070737 FIGURE: 6 unclaimed DNA
CN 47: PN: WO02063037 TABLE: 1 unclaimed DNA
CN DNA (human brain clone HG3925 gene KIAA0537 AMPK-family protein kinase ARK5 cDNA plus flanks)
CN DNA (human clone HG3925 gene KIAA0537 cDNA)
CN GenBank AB011109
SQL 6828
MF Unspecified
CI MAN

09/761116 .

REFERENCE 1: 138:316554

REFERENCE 2: 137:246071

REFERENCE 3: 137:180730

L7 ANSWER 8 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN **336679-97-1** REGISTRY
CN DNA (human .beta.3-adrenergic receptor gene promoter
region-containing fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN GenBank AF359565
SQL 7127
MF Unspecified
CI MAN

REFERENCE 1: 136:49212

L7 ANSWER 9 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN **287496-91-7** REGISTRY
CN DNA, d(G-A-T-C-C-G-C-C-T-C-T-G-G-G-G-A-G-C-A-G-C-T-T-G-A-G-G-A)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 48: PN: WO0044901 SEQID: 48 unclaimed DNA
SQL 28
MF Unspecified
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 10 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN **287496-90-6** REGISTRY
CN DNA, d(G-A-T-C-C-G-C-C-T-C-T-G-G-G-G-A-G-C-A-G-G-A-A-C-T-C-C-A)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 47: PN: WO0044901 SEQID: 47 unclaimed DNA
SQL 28
MF Unspecified
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 11 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN **287496-89-3** REGISTRY
CN DNA, d(G-A-T-C-C-G-C-C-T-C-T-G-G-G-G-A-G-G-T-C-C-T-T-C-T-C-C-A)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 46: PN: WO0044901 SEQID: 46 unclaimed DNA
SQL 28
MF Unspecified
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 12 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN **287496-84-8** REGISTRY
CN DNA, d(G-A-T-C-C-G-C-C-T-C-T-G-G-G-G-A-G-C-A-G-C-T-T-C-T-C-C-A)

09/761116

(9CI) (CA INDEX NAME)
OTHER NAMES:
CN 41: PN: WO0044901 SEQID: 41 unclaimed DNA
SQL 28
MF Unspecified
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 13 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN **287496-35-9** REGISTRY
CN DNA (human .beta.3 adrenoceptor gene 200-bp 20 CCTT
repeat-containing 5'-flanking fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:
CN 3: PN: WO0044901 SEQID: 3 claimed DNA
SQL 200
MF Unspecified
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 14 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN **287496-21-3** REGISTRY
CN DNA, d(G-C-C-T-C-T-G-G-G-A-G) (9CI) (CA INDEX NAME)

OTHER NAMES:
CN 1: PN: WO0044901 SEQID: 1 claimed DNA
SQL 12
MF Unspecified
CI MAN

REFERENCE 1: 133:145940

L7 ANSWER 15 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN **267626-85-7** REGISTRY
CN DNA (human gene GLP plus flanks) (9CI) (CA INDEX NAME)

OTHER NAMES:
CN 1492: PN: WO02070737 FIGURE: 6 unclaimed DNA
CN DNA (human gene GLP)
CN GenBank AF266285
SQL 21500
MF Unspecified
CI MAN

REFERENCE 1: 137:246071

REFERENCE 2: 135:117777

L7 ANSWER 16 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN **266660-95-1** REGISTRY
CN DNA (human neuroligin 3 isoform gene plus neuroligin 3 isoform gene)
(9CI) (CA INDEX NAME)

OTHER NAMES:
CN 1414: PN: WO02070737 FIGURE: 6 unclaimed DNA
CN GenBank AF217413
SQL 32272
MF Unspecified
CI MAN

09/761116

REFERENCE 1: 137:246071

L7 ANSWER 17 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 263952-68-7 REGISTRY
CN DNA (Rattus norvegicus gene Phgdh plus flanks) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN DNA (Rattus norvegicus phosphoglycerate dehydrogenase gene plus flanks)
CN GenBank AJ271975
SQL 34071
MF Unspecified
CI MAN

REFERENCE 1: 135:132953

L7 ANSWER 18 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 261334-62-7 REGISTRY
CN DNA (Rattus norvegicus strain Wistar gene UGT1A2) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN GenBank AB025923
SQL 4876
MF Unspecified
CI MAN

REFERENCE 1: 133:318161

L7 ANSWER 19 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 258491-28-0 REGISTRY
CN DNA (human clone RPCI-11-157G10 gene CACNA1E plus gene CACNA1E) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1426: PN: WO02070737 FIGURE: 6 unclaimed DNA
CN GenBank AF223391
SQL 316704
MF Unspecified
CI MAN

REFERENCE 1: 137:246071

L7 ANSWER 20 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 252323-74-3 REGISTRY
CN 65: PN: WO9963080 FIGURE: 1g unclaimed sequence (9CI) (CA INDEX NAME)
SQL 4984
MF Unspecified
CI MAN

REFERENCE 1: 132:31783

L7 ANSWER 21 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 244895-31-6 REGISTRY
CN DNA (Rattus norvegicus gene SLP protein SLP (septin-like protein) isoform SLP-b cDNA plus flanks) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN GenBank AF173899
SQL 3745

09/761116

MF Unspecified
CI MAN

REFERENCE 1: 134:66939

L7 ANSWER 22 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 244895-16-7 REGISTRY
CN DNA (Rattus norvegicus gene SLP protein SLP (septin-like protein)
isoform SLP-a cDNA plus flanks) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN GenBank AF170253
SQL 3869
MF Unspecified
CI MAN

REFERENCE 1: 134:66939

L7 ANSWER 23 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 227594-62-9 REGISTRY
CN DNA (human gene KvLQT1 plus gene KvLQT1) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1545: PN: WO02070737 FIGURE: 6 unclaimed DNA
CN GenBank AJ006345
SQL 404123
MF Unspecified
CI MAN

REFERENCE 1: 137:246071

L7 ANSWER 24 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 217120-85-9 REGISTRY
CN DNA (human chromosome 1 clone 1071N3 74,037-nucleotide fragment)
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN DNA (human endothelin-converting enzyme-1 gene ECE1 isoenzyme
c-specific promoter region-containing fragment)
CN GenBank AL031728
SQL 74037
MF Unspecified
CI MAN

REFERENCE 1: 132:304235

L7 ANSWER 25 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 202053-19-8 REGISTRY
CN DNA (human WI-38 cell gene BIN1 exons 7-12 plus flanks) (9CI) (CA
INDEX NAME)

SQL 8310
MF Unspecified
CI MAN

REFERENCE 1: 130:49515

REFERENCE 2: 128:124353

L7 ANSWER 26 OF 27 REGISTRY COPYRIGHT 2003 ACS
RN 177643-91-3 REGISTRY
CN DNA (mouse clone 2B gene sim transcription factor cDNA plus flanks)

09/761116

(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid (mouse clone 2B gene sim transcription factor
messenger RNA-complementary plus 5'- and 3'-flanking region
fragment)

OTHER NAMES:

CN DNA (mouse gene msim transcription factor MSIM cDNA and flanks)
SQL 3071
MF Unspecified
CI MAN

REFERENCE 1: 133:39066

REFERENCE 2: 125:134562

L7 ANSWER 27 OF 27 REGISTRY COPYRIGHT 2003 ACS

RN **174098-94-3** REGISTRY

CN DNA (Mus musculus strain Swiss Webster gene Sim-2 protein cDNA plus
flanks) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid (Mus musculus strain Swiss Webster gene Sim2
protein messenger RNA-complementary plus 5'- and 3'-flanking region
fragment)

OTHER NAMES:

CN GenBank U40576
SQL 3963
MF Unspecified
CI MAN

REFERENCE 1: 125:217812

REFERENCE 2: 124:256565

FILE 'HOME' ENTERED AT 16:14:07 ON 12 JUN 2003

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 12, 2003, 10:33:51 ; Search time 985 Seconds
(without alignments)
354.552 Million cell updates/sec

Title: US-09-761-116-1
Perfect score: 12
Sequence: 1 gctctcgaggag 12

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Search: 2054640 seqs, 14551402878 residues
1 number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: GenEmbl.*
1: gb_ba.*
2: gb_hcg.*
3: gb_in.*
4: gb_cm.*
5: gb_ov.*
6: gb_pat.*
7: gb_ph.*
8: gb_pl.*
9: gb_pr.*
10: gb_ro.*
11: gb_scs.*
12: gb_sy.*
13: gb_un.*
14: gb_vl.*
15: em_ba.*
16: em_fun.*
17: em_hum.*
18: em_in.*
19: em_mu.*
20: em_om.*
21: em_or.*
22: em_ov.*
23: em_pac.*
24: em_ph.*
25: em_pl.*
26: em_ro.*
27: em_scs.*
28: em_un.*
29: em_vl.*
30: em_hcg_hum.*
31: em_hcg_inv.*
32: em_hcg_other.*
33: em_hcg_mus.*
34: em_hcg_pln.*
35: em_hcg_rod.*
36: em_hcg_mam.*
37: em_hcg_vtc.*
38: em_sy.*
39: em_hugo_hum.*
40: em_hugo_mus.*
41: em_hugo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	12	100.0	12	6	ARI37925
2	12	100.0	12	6	ARI37965
3	12	100.0	28	6	ARI37970
4	12	100.0	28	6	ARI37971
5	12	100.0	28	6	ARI37972
6	12	100.0	130	6	HSU39347
7	12	100.0	200	6	ARI37927
8	12	100.0	208	11	G04524
9	12	100.0	224	6	AX244726
10	12	100.0	266	11	G65279
11	12	100.0	278	9	HSNLI243D
12	12	100.0	287	9	HUMCM05
13	12	100.0	292	11	G09804
14	12	100.0	321	11	HUMUT7961A
15	12	100.0	330	11	G71854
16	12	100.0	333	11	G71018
17	12	100.0	370	9	AF366903
18	12	100.0	381	6	AX072790
19	12	100.0	384	10	MMEB2AK1
20	12	100.0	393	10	AF028605
21	12	100.0	403	4	AB016736
22	12	100.0	403	4	AB016737
23	12	100.0	403	4	AB016738
24	12	100.0	403	4	AB016739
25	12	100.0	403	4	AB016740
26	12	100.0	403	4	AB016741
27	12	100.0	403	4	AB016742
28	12	100.0	403	4	AB016743
29	12	100.0	403	4	AB016744
30	12	100.0	417	10	AF028603
31	12	100.0	427	11	G55693
32	12	100.0	432	10	AF028604
33	12	100.0	437	10	MUSKX103
34	12	100.0	439	4	AB016251
35	12	100.0	534	4	DOGP53A
36	12	100.0	545	8	AX312180
37	12	100.0	548	6	AY088677
38	12	100.0	591	10	AF300861
39	12	100.0	594	10	AF300862
40	12	100.0	596	9	HS333688
41	12	100.0	599	9	HS3336032
42	12	100.0	599	9	HS333624
43	12	100.0	606	9	HS333863
44	12	100.0	612	9	HS3335324
45	12	100.0			

ALIGNMENTS

RESULT 1
LOCUS ARI37925
DEFINITION Sequence 1 from patent US 6197580.
ACCESSION ARI37925
VERSION ARI37925.1 GI:14479434
KEYWORDS
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 12)
AUTHORS Susulic,V.S. and Duzic,E.
TITLE Transcriptional regulation of the human .beta.3-adrenergic receptor gene
JOURNAL Patent: US 6197580-A 1 06-MAR-2001;

FEATURES Location/Qualifiers
 source 1..12 /organism="unknown"
 BASE COUNT 1 a 3 c 6 g 2 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 6; Length 12;
 Best Local Similarity 100.0%; Pred. No. 7.1e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGGAG 12
 DB 1 GCCTCTGGGGAG 12

RESULT 2
 LOCUS AR137965 28 bp DNA linear PAT 16-JUN-2001
 DEFINITION Sequence 41 from patent US 6197580.
 ACCESSION AR137965
 VERSION AR137965.1 GI:14479474
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 28)
 AUTHORS Susulic,V.S. and Duzic,E.
 TITLE Transcriptional regulation of the human .beta.3-adrenergic receptor gene
 JOURNAL Patent: US 6197580-A 41 06-MAR-2001;
 FEATURES Location/Qualifiers
 source 1..28
 BASE COUNT 4 a 10 c 8 g 6 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 6; Length 28;
 Best Local Similarity 100.0%; Pred. No. 7.1e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGGAG 12
 DB 6 GCCTCTGGGGAG 17

RESULT 3
 LOCUS AR137970 28 bp DNA linear PAT 16-JUN-2001
 DEFINITION Sequence 46 from patent US 6197580.
 ACCESSION AR137970
 VERSION AR137970.1 GI:14479479
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 28)
 AUTHORS Susulic,V.S. and Duzic,E.
 TITLE Transcriptional regulation of the human .beta.3-adrenergic receptor gene
 JOURNAL Patent: US 6197580-A 46 06-MAR-2001;
 FEATURES Location/Qualifiers
 source 1..28
 BASE COUNT 3 a 10 c 8 g 7 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 6; Length 28;
 Best Local Similarity 100.0%; Pred. No. 7.1e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGGAG 12
 DB 6 GCCTCTGGGGAG 17

RESULT 4
 LOCUS AR137971 28 bp DNA linear PAT 16-JUN-2001
 DEFINITION Sequence 47 from patent US 6197580.
 ACCESSION AR137971
 VERSION AR137971.1 GI:14479480
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 28)
 AUTHORS Susulic,V.S. and Duzic,E.
 TITLE Transcriptional regulation of the human .beta.3-adrenergic receptor gene
 JOURNAL Patent: US 6197580-A 47 06-MAR-2001;
 FEATURES Location/Qualifiers
 source 1..28
 BASE COUNT 6 a 9 c 9 g 4 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 6; Length 28;
 Best Local Similarity 100.0%; Pred. No. 7.1e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGGAG 12
 DB 6 GCCTCTGGGGAG 17

RESULT 5
 LOCUS AR137972 28 bp DNA linear PAT 16-JUN-2001
 DEFINITION Sequence 48 from patent US 6197580.
 ACCESSION AR137972
 VERSION AR137972.1 GI:14479481
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 28)
 AUTHORS Susulic,V.S. and Duzic,E.
 TITLE Transcriptional regulation of the human .beta.3-adrenergic receptor gene
 JOURNAL Patent: US 6197580-A 48 06-MAR-2001;
 FEATURES Location/Qualifiers
 source 1..28
 BASE COUNT 5 a 7 c 11 g 5 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 6; Length 28;
 Best Local Similarity 100.0%; Pred. No. 7.1e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGGAG 12
 DB 6 GCCTCTGGGGAG 17

RESULT 6
 LOCUS HSU9347 130 bp DNA linear PRI 21-MAR-1997
 DEFINITION Human MHC class I antigen HLA-C gene (HLA-C*0401 allele), intron
 ACCESSION U9347
 VERSION U9347.1 GI:1654171
 KEYWORDS Homo sapiens.
 SOURCE Homo sapiens
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 Cereb.N., Kong.Y., Lee.S., Maye.P. and Yang.S.Y.
 Nucleotide sequences of MHC class I introns 1, 2, and 3 in humans
 and intron 2 in nonhuman primates
 Tissue Antigens 47 (6), 498-511 (1996)
 JOURNAL 96408732
 MEDLINE 8813739
 PUBMED 2 (bases 1 to 130)
 REFERENCE Yang.S.Y. and Cereb.N.
 Direct Submission
 Submitted (24-OCT-1995) Soc Yang, Immunology Program, Memorial
 Sloan-Kettering Cancer Center, 1275 York Ave, Box 41, New York, NY
 10021, USA
 FEATURES
 source location/Qualifiers
 1..130
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /map="6p21.3"
 /cell_line="WT100BIS B cell line"
 1..130
 /gene="HLA-C"
 1..130
 /note="HLA-Cw*0401 allele"
 /number=1
 BASE COUNT 19 a 36 c 63 g 12 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 9; Length 130;
 Best Local Similarity 100.0%; Pred. No. 5.9e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCCTCTGGGAG 12
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 27 GCCTCTGGGAG 38
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 RESULT 7
 AR137927 200 bp DNA linear PAT 16-JUN-2001
 LOCUS AR137927
 DEFINITION Sequence 3 from patent US 6197580.
 ACCESSION AR137927
 VERSION AR137927.1 GI:14479436
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 UNCLASSIFIED.
 REFERENCE 1 (bases 1 to 200)
 AUTHORS Susulic.V.S. and Duric.E.
 TITLE Transcriptional regulation of the human .beta.3-adrenergic receptor
 gene
 Patent: US 6197580-A 3 06-MAR-2001;
 FEATURES
 source location/Qualifiers
 1..200
 /organism="unknown"
 BASE COUNT 25 a 70 c 37 g 68 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 6; Length 200;
 Best Local Similarity 100.0%; Pred. No. 5.6e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCCTCTGGGAG 12
 |||||
 61 GCCTCTGGGAG 72
 |||||
 RESULT 8
 G04524 208 bp DNA linear STS 19-OCT-1995
 LOCUS G04524
 DEFINITION human STS WI-4034, sequence tagged site.

ACCESSION G04524
 VERSION G04524.1 GI:721482
 KEYWORDS STS; STS sequence; primer; sequence tagged site.
 SOURCE Homo sapiens Random genome wide STS created from sheared whole
 human DNA.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 REFERENCE 1 (bases 1 to 208)
 AUTHORS Hudson.T.
 TITLE Whitehead Institute/MIT Center for Genome Research; Random Genome
 Wide STS
 JOURNAL Unpublished (1995)
 REFERENCE 2 (bases 1 to 208)
 AUTHORS Hudson.T.
 TITLE Whitehead Institute/MIT Center for Genome Research; Physically
 Mapped STS
 JOURNAL Unpublished (1995)
 COMMENT
 Contact: Thomas Hudson
 Whitehead Institute/MIT Center for Genome Research
 Whitehead Institute for Biomedical Research
 9 Cambridge Center, Cambridge MA 02142 USA
 Tel: 617 252 1900
 Fax: 617 252 1902
 Email: thudson@genome.wi.mit.edu
 Primer A: TATGGCACTTGAAGAGG
 Primer B: CCCAAGAGAGCCACT
 STS size: 155
 PCR Profile:
 Presoak:
 Denaturation:
 Annealing: 56 degrees C
 Polymerization:
 PCR Cycles: 35
 Thermal Cycler:
 Protocol:
 Template: 10 ng
 Primer: each 5 pm
 dNTPs: each 4 mM
 Tag Polymerase: 0.025 units/ul
 Total Vol: 20 ul
 Buffer:
 MgCl2: 1.5 mM
 KCl: 50 mM
 Tris-HCl: 10 mM
 pH: 9.3.
 FEATURES
 source location/Qualifiers
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 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /map="709_B_4; 802_B_4; 805_F_5; 851_E_2; 964_F_8;
 921_A_10; (720,724)_A_(10,12); 304.8 cR from top of Chr15
 linkage group"
 51..205
 51..70
 primer_bind 51..70
 primer_bind 51 a 43 c 69 g 45 t
 BASE COUNT 51 a 43 c 69 g 45 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 11; Length 208;
 Best Local Similarity 100.0%; Pred. No. 5.6e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCCTCTGGGAG 12
 |||||
 14 GCCTCTGGGAG 25
 |||||
 RESULT 9
 AX244726

LOCUS AX244726 234 bp DNA linear PAT 28-SEP-2001
 DEFINITION Sequence 55 from Patent M0016750.
 ACCESSION AX244726
 VERSION AX244726.1 GI:15859605
 KEYWORDS
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 REFERENCE 1 (bases 1 to 234)
 VOGELI, G. and WOOD, L.S.
 G protein-coupled receptors
 Patent: WO 0166750-A 55 13-SEP-2001;
 PHARMACIA & UPJOHN COMPANY (US)
 FEATURES
 source
 1..234
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 BASE COUNT 56 a 64 c 65 g 49 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 6; Length 234;
 Best Local Similarity 100.0%; Pred. No. 5.5e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GCCTGTGGGAG 12
 |||||
 100 GCCTGTGGGAG 111
 Db

RESULT 10
 G65279 266 bp DNA linear STS 14-JUL-2000
 LOCUS FBN1-64new Random genomic STS Homo sapiens STS genomic, sequence
 DEFINITION tagged site.
 ACCESSION G65279
 VERSION G65279.1 GI:921115
 KEYWORDS
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 REFERENCE 1 (bases 1 to 266)
 OEFNER, P.J.
 Human random genomic STS survey, unpublished data
 JOURNAL Unpublished (1999)
 COMMENT
 Contact: Peter Oefner
 Stanford Genome Center
 Stanford University
 855 California Ave., Palo Alto, CA 94304, USA
 Tel: 6508121926
 Fax: 6508121975
 Email: Oefner@genome.stanford.edu
 Primer A: CCTACCTGTCTTCCCAATTCCTAA
 Primer B: ACAGGACATCAGAGAACTAAC
 STS size: 266
 PCR profile:
 Initial denaturing step of 95 degrees C for 10 min to activate
 AmpliTaq Gold (1)
 min for AmpliTaq;
 14 cycles of touchdown: 94 degrees C for 20 sec, annealing for 1
 min at 63
 56 degrees C to
 56 degrees C using decrements of 0.5 degrees C, extension at 72
 degrees C for 1
 min;
 20 cycles at 94 degrees C for 20s, 56 degrees C for 45 sec, 72
 degrees C for 1
 min.
 Protocol:
 Template: 50 ng
 Primer: each 0.2 uM

Tag Polymerase: 0.02 units/ul
 Total Vol: 50 ul
 Buffer:
 MgCl2: 2.5 mM
 KCl: 50 mM
 Tris-HCl: 10 mM
 pH: 8.3
 DMSO: 0 %
 FEATURES
 source
 1..266
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /sex="Male and Female"
 /clone_lib="Random genomic STS"
 STS
 primer_bind 1..23
 primer_bind complement(242..266)
 BASE COUNT 69 a 68 c 65 g 64 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 11; Length 266;
 Best Local Similarity 100.0%; Pred. No. 5.5e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GCCTGTGGGAG 12
 |||||
 145 GCCTGTGGGAG 134
 Db

RESULT 11
 HSNL1243D 278 bp DNA linear PRI 01-JUL-1996
 LOCUS HSNL1243D
 DEFINITION H.sapiens genomic DNA (chromosome 3; clone NL1243D).
 ACCESSION X87489
 VERSION X87489.1 GI:1418839
 KEYWORDS
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 REFERENCE 1 (bases 1 to 278)
 ZABAROVSKY, E.R.
 Unpublished
 JOURNAL Unpublished
 AUTHORS Zabarovsky, E.R.
 TITLE Direct Submission
 JOURNAL Submitted (03-MAY-1995) Zabarovsky E.R., Microbiology and
 Tumorbiology Center, Karolinska Institute, P.O. Box 280, Stockholm,
 S-171 77, SWEDEN
 FEATURES
 source
 1..278
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="3 (human)"
 /clone="NL1243D"
 /cell_line="mouse/human microcell hybrid line MHC 903.1"
 /clone_lib="NotI linking library"
 /note="genomic DNA surrounding NotI sites"
 BASE COUNT 44 a 95 c 77 g 62 t
 ORIGIN
 Query Match 100.0%; Score 12; DB 9; Length 278;
 Best Local Similarity 100.0%; Pred. No. 5.4e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GCCTGTGGGAG 12
 |||||
 240 GCCTGTGGGAG 251
 Db

RESULT 12
 HUMCW05/c

LOCUS HUMC05 287 bp DNA linear PRI 14-APR-2000
 DEFINITION Human DNA for HLA-Cw*0702, partial cds.
 ACCESSION D64153
 VERSION D64153.1 GI:1339908
 KEYWORDS HLA-Cw*0702; MHC class I.
 SOURCE Homo sapiens (isolate:TM) peripheral Blood lymphocyte DNA, clone:1-1.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 287)
 AUTHORS Wang, H., Tokunaga, K., Ishikawa, Y., Aashima, A., Kuwata, S., Akaza, T., Tadokoro, K., Shibata, Y., Takiguchi, M. and Yuji, T.
 TITLE Identification and DNA typing of two Cw7 alleles (Cw*0702 and Cw*0704) in Japanese, with the corrected sequence of Cw*0702
 JOURNAL Hum. Immunol. 45 (1), 52-58 (1996)
 MEDLINE 96232973
 REFERENCE 2 (bases 1 to 287)
 AUTHORS Wang, H.
 JOURNAL Unpublished
 TITLES 3 (bases 1 to 287)
 AUTHORS Wang, H.
 TITLE Direct Submission
 JOURNAL Submitted (16-SEP-1995) Huiyu Wang, Japanese Red Cross Central Blood Center, Department of Research, 4-1-31 Hiroo, Shibuya-Ku, Tokyo 150, Japan (Tel:03-5485-6009, Fax:03-3406-7892)
 FEATURES
 source
 1..287
 /organism="Homo sapiens"
 /isolate="TM"
 /db_xref="taxon:9606"
 /chromosome="6"
 /map="6p21.3"
 /clone="1-1"
 /cell_type="lymphocyte"
 /tissue_type="peripheral Blood"
 <1..157
 /number=1
 <1..84
 85..>157
 /codon_start=1
 /product="HLA-Cw*0702"
 /protein_id="BAI1022.1"
 /db_xref="GI:1561555"
 /translation="MRVMAPRTLILLSGALATETWA"
 158..287
 /number=1
 45 a 101 c 103 g 38 t
 IN
 COUNT
 Query Match 100.0%; Score 12; DB 9; Length 287;
 Best Local Similarity 100.0%; Pred. No. 5.4e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCCTCTGGGAG 12
 |||||
 Db 80 GCCTCTGGGAG 69
 RESULT 13
 LOCUS G09804 292 bp DNA linear STS 15-AUG-1995
 DEFINITION human STS CHLC.GCT13C07.PI6417 clone GCT13C07, sequence tagged site.
 ACCESSION G09804
 VERSION G09804.1 GI:941653
 KEYWORDS STS; STS sequence; primer; sequence tagged site.
 SOURCE Homo sapiens vector-pUC1 host-E.coli dut+ung+ (DH10B) Marker selected genomic DNA prepared from XY individual of French nationality.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 292)
 AUTHORS Murray, J., Sheffield, V., Weber, J.L., Duyk, G. and Buettow, K.H.
 JOURNAL Cooperative Human Linkage Center
 COMMENT Unpublished (1995)
 Synonyms: GCT13C07, CHLC.GCT13C07.T16344
 Contact: Dr. Jeffrey C. Murray
 UofI
 The University of Iowa
 Department of Pediatrics, Iowa City, IA 52242, USA
 Tel: (319) 356-3508
 Fax: (319) 356-3347
 Email: jeff-murray@uiowa.edu
 Primer A: TTCTGCTCACTTACTCATTTGTTAGC
 Primer B: GTTACGAGACAGATGCC
 STS size: 122
 PCR Profile:
 denature: 30 seconds at 94 degrees C
 annealing: 75 seconds at 55 degrees C
 extension: 15 seconds at 72 degrees C
 PCR cycles: 27
 extension: 6 minutes at 72 degrees C
 Protocol:
 Template: 30ng genomic DNA
 Primer: each 1.5 pmole
 dNTPs: each 200 uM
 Tag Polymerase: 0.3 units
 Total Vol: 10 uL
 Buffer:
 MgCl2: 1.5mM
 KCl: 50mM
 Tris: 10mM
 pH: 8.3
 Location/Qualifiers
 1..292
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 STS
 primer_bind 62..86
 primer_bind 62..86
 BASE COUNT 86 a 60 c 58 g 86 t 2 others
 ORIGIN
 Query Match 100.0%; Score 12; DB 11; Length 292;
 Best Local Similarity 100.0%; Pred. No. 5.4e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GCCTCTGGGAG 12
 |||||
 Db 219 GCCTCTGGGAG 230
 RESULT 14
 LOCUS HUMUT7961A/C 321 bp DNA linear STS 29-DEC-1994
 DEFINITION Human STS UT7961, 5' primer bind, sequence tagged site.
 ACCESSION I30159
 VERSION I30159.1 GI:605335
 KEYWORDS STS; PCR primer; STS sequence; microsatellite DNA; microsatellite marker; sequence tagged site; tetranucleotide repeat.
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 321)
 AUTHORS Gerken, S.C., Matsunami, N., Plaetke, R., Albertsen, H., Ballard, L., Wells, R., Lawrence, E., Moore, M., Holik, P.R., Carlson, M., Zhao, X., Robertson, M., Bradley, P., Elsen, T., Tingey, A., Lalouel, J.-M. and White, R.
 TITLE Genetic and physical mapping of simple sequence repeat containing sequence tagged sites from the human genome
 JOURNAL Unpublished (1994)

COMMENT

Submitted by: Utah Center for Human Genome Research University of
Utah, Dept. of Human Genetics
2160 Eccles Institute of Human Genetics
Salt Lake City, UT 84112

e-mail: steccorona.med.utah.edu

Primer A: TTGACTCTCCGAGAGGCT

Primer B: TTGCTCTGGCGGTAGTTT

End to Label: Primer A

PCR Profile:

Initial Denaturation: 94C 300sec

Cycles Denaturation Annealing Extension 5 94

C 10 sec. 54 C 10 sec. 72 C 20 sec. 30

56 C 10 sec. 72 C 20 sec. Mg++: 1.00 mM

Gel: Acrylamide 7%, Formamide 32%, Urea 34%

Alleles: 1

Location/Qualifiers

1. 321

/organism="Homo sapiens"

/db_xref="taxon:9606"

197. 215

/evidence=experimental

64 a 102 c 97 g 53 t 5 others

ORIGIN

primer_bind

64 a

102 c

97 g

53 t

5 others

5 COUNT

64 a

102 c

97 g

53 t

5 others

5 COUNT

64 a

102 c

97 g

53 t

5 others

5 COUNT

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102 c

97 g

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5 COUNT

64 a

102 c

97 g

53 t

5 others

5 COUNT

GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: June 12, 2003, 10:33:06 ; Search time 209 Seconds
(without alignments)
129.301 Million cell updates/sec

Title: US-09-761-116-1

Perfect score: 12
Sequence: 1 gcctctggggag 12

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 112599159 residues

Number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N_Geneseq_101002:*
1: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1980.DAT:*
2: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1981.DAT:*
3: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1982.DAT:*
4: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1983.DAT:*
5: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1984.DAT:*
6: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1985.DAT:*
7: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1986.DAT:*
8: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1987.DAT:*
9: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1988.DAT:*
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15: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1994.DAT:*
16: /SID52/gcgdata/geneeq/geneeqn-emb1/NA1995.DAT:*
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21: /SID52/gcgdata/geneeq/geneeqn-emb1/NA2000.DAT:*
22: /SID52/gcgdata/geneeq/geneeqn-emb1/NA2001A.DAT:*
23: /SID52/gcgdata/geneeq/geneeqn-emb1/NA2001B.DAT:*
24: /SID52/gcgdata/geneeq/geneeqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	12	100.0	12	21	AAA87902
2	12	100.0	28	21	AAA87942
3	12	100.0	28	21	AAA87947
4	12	100.0	28	21	AAA87948
5	12	100.0	28	21	AAA87949
6	12	100.0	113	22	ABA76256
7	12	100.0	113	22	ABA40796
8	12	100.0	113	22	AAK24907
9	12	100.0	113	22	AAK50902

10	12	100.0	113	22	AAI27940	Probe #17973 for g
11	12	100.0	113	24	ABS24411	Human genome-deriv
12	12	100.0	200	21	AAA87904	Human beta-3-adren
13	12	100.0	227	21	AAC15250	Human secreted pro
14	12	100.0	234	22	AA330782	Human cDNA encodin
15	12	100.0	289	24	ABN21401	Human ORFX polynuc
16	12	100.0	294	21	AA48449	Arabidopsis thaliana
17	12	100.0	305	22	ABA51365	Human breast cell
18	12	100.0	305	22	ABA69368	Human foetal liver
19	12	100.0	305	22	ABA36303	Probe #14769 for g
20	12	100.0	305	22	AAK17648	Human brain expres
21	12	100.0	305	22	AAK43461	Human bone marrow
22	12	100.0	305	22	AAI24242	Probe #14175 for g
23	12	100.0	305	22	AAI49525	Probe #18211 used t
24	12	100.0	305	22	AAI09803	Probe #9794 used t
25	12	100.0	305	24	ABS17580	Human genome-deriv
26	12	100.0	312	22	AAI87082	Human polynucleoti
27	12	100.0	343	22	ABA07685	Human ovarian and
28	12	100.0	343	22	AAI02637	Human reproductive
29	12	100.0	349	22	ABA66473	Human foetal liver
30	12	100.0	349	22	ABA3535	Probe #12001 for g
31	12	100.0	349	22	AAK14892	Human brain expres
32	12	100.0	349	22	AAI46673	Probe #15359 used
33	12	100.0	351	24	ABU81321	Human ovarian cenc
34	12	100.0	360	21	AACT4668	Human ORFX ORF23
35	12	100.0	374	22	AAI89863	Human polynucleoti
36	12	100.0	381	22	AAFe7500	Novel human polynu
37	12	100.0	385	24	ABL82542	Human ovarian canc
38	12	100.0	402	21	AAAC2389	Human secreted pro
39	12	100.0	403	24	ABN20175	Human ORFX polynuc
40	12	100.0	409	24	ABK87524	Mammalian nebulin-
41	12	100.0	412	22	AAH98943	Human EST-derived
42	12	100.0	413	23	ABV15628	Human prostate exp
43	12	100.0	417	22	AAI82925	Human polynucleoti
44	12	100.0	435	22	ABA21400	Human nervous syst
45	12	100.0	438	22	ABA09465	Human Zn metallopro

ALIGNMENTS

RESULT 1
ID AAA87902 standard; DNA; 12 BP.
AC AAA87902;
DT 07-DEC-2000 (first entry)
XX
DE Human beta-3-adrenergic receptor B segment oligonucleotide SEQ ID NO:1.
KW Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter;
KW regulation; identification; trans-activating factor; drug screening;
KW gene expression regulation; Obesity; Type II diabetes; ss.
XX
OS Homo sapiens.
XX
PN WO200044901-A1.
XX
XX 03-AUG-2000.
XX
XX 01-FEB-2000; 2000WO-US02632.
XX
XX 01-FEB-1999; 99US-0243335.
XX
XX (AMHP) AMERICAN HOME PROD CORP.
XX
XX Susulic VS, Duzic E;
XX
XX WPI; 2000-482973/42.
XX
XX New isolated nucleic acid useful for screening assays to identify
PT compounds capable of regulating beta3-AR (adrenergic receptor)

PT expression, is composed of three regulatory segments -
XX
PS Claim 2; Page 57; 88bp; English.
XX
CC The present sequence represents the core nucleotide sequence from the
CC B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory
CC region. The core nucleotide sequence binds to a B-segment-binding
CC trans-activating factor. Recombinant vectors under control of the
CC transcription regulation region comprising nucleotide sequences
CC containing the core nucleotide sequence from the B segment of the human
CC beta-3-AR regulatory region provide a substrate for high throughput
CC assays, particularly reporter gene assays to identify compounds capable
CC of increasing or decreasing the level of expression of beta-3-AR. The
CC nucleotide sequences can be used for regulating gene expression and for
CC drug screening. It is envisaged that beta-3-AR stimulation may have
CC beneficial effects in the treatment of obesity and type II diabetes.
XX
SQ Sequence 12 BP; 1 A; 3 C; 6 G; 2 T; 0 other;
Query Match 100.0%; Score 12; DB 21; Length 12;
Best Local Similarity 100.0%; Pred. No. 2,1e+03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCCTCTGGGAG 12
DB 1 GCCTCTGGGAG 12
RESULT 2
AAA87942
ID AAA87942 standard; DNA; 28 BP.
XX
AC AAA87942;
XX
DT 07-DEC-2000 (first entry)
XX
DE Beta-3-AR segment B mutational analysis oligonucleotide SEQ ID NO:41.
XX
KW Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter;
KW regulation; identification; trans-activating factor; drug screening;
KW gene expression regulation; obesity; type II diabetes; mutation; ss.
XX
OS Homo sapiens.
XX
PN WO200044901-A1.
XX
PD 03-AUG-2000.
XX
PT 01-FEB-2000; 2000WO-US02632.
XX
PT 01-FEB-1999; 99US-0243335.
XX
PA (AMHP) AMERICAN HOME PROD CORP.
XX
PS Suenlic VS, Duzic E;
XX
DR WPI; 2000-482973/42.
XX
PT New isolated nucleic acid useful for screening assays to identify
PT compounds capable of regulating beta3-AR (adrenergic receptor)
PT expression, is composed of three regulatory segments -
XX
PS Example 1; Fig 7; 88bp; English.
XX
CC The present invention describes a core nucleotide sequence from the
CC B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory
CC region. The core nucleotide sequence binds to a B-segment-binding
CC trans-activating factor. Recombinant vectors under control of the
CC transcription regulation region comprising nucleotide sequences
CC containing the core nucleotide sequence from the B segment of the human
CC beta-3-AR regulatory region provide a substrate for high throughput
CC assays, particularly reporter gene assays to identify compounds capable
CC of increasing or decreasing the level of expression of beta-3-AR. The

CC nucleotide sequences can be used for regulating gene expression and for
CC drug screening. It is envisaged that beta-3-AR stimulation may have
CC beneficial effects in the treatment of obesity and type II diabetes.
CC The present sequence represents a human beta-3-AR segment B mutational
CC analysis oligonucleotide, which is used in the exemplification of the
CC present invention.
XX
SQ Sequence 28 BP; 4 A; 10 C; 8 G; 6 T; 0 other;
Query Match 100.0%; Score 12; DB 21; Length 28;
Best Local Similarity 100.0%; Pred. No. 2,1e+03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCCTCTGGGAG 12
DB 6 GCCTCTGGGAG 17
RESULT 3
AAA87947
ID AAA87947 standard; DNA; 28 BP.
XX
AC AAA87947;
XX
DT 07-DEC-2000 (first entry)
XX
DE Beta-3-AR segment B mutational analysis oligonucleotide SEQ ID NO:46.
XX
KW Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter;
KW regulation; identification; trans-activating factor; drug screening;
KW gene expression regulation; obesity; type II diabetes; mutation; ss.
XX
OS Homo sapiens.
XX
PN WO200044901-A1.
XX
PD 03-AUG-2000.
XX
PT 01-FEB-2000; 2000WO-US02632.
XX
PT 01-FEB-1999; 99US-0243335.
XX
PA (AMHP) AMERICAN HOME PROD CORP.
XX
PS Suenlic VS, Duzic E;
XX
DR WPI; 2000-482973/42.
XX
PT New isolated nucleic acid useful for screening assays to identify
PT compounds capable of regulating beta3-AR (adrenergic receptor)
PT expression, is composed of three regulatory segments -
XX
PS Example 1; Fig 7; 88bp; English.
XX
CC The present invention describes a core nucleotide sequence from the
CC B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory
CC region. The core nucleotide sequence binds to a B-segment-binding
CC trans-activating factor. Recombinant vectors under control of the
CC transcription regulation region comprising nucleotide sequences
CC containing the core nucleotide sequence from the B segment of the human
CC beta-3-AR regulatory region provide a substrate for high throughput
CC assays, particularly reporter gene assays to identify compounds capable
CC of increasing or decreasing the level of expression of beta-3-AR. The
CC nucleotide sequences can be used for regulating gene expression and for
CC drug screening. It is envisaged that beta-3-AR stimulation may have
CC beneficial effects in the treatment of obesity and type II diabetes.
CC The present sequence represents a human beta-3-AR segment B mutational
CC analysis oligonucleotide, which is used in the exemplification of the
CC present invention.
XX
SQ Sequence 28 BP; 3 A; 10 C; 8 G; 7 T; 0 other;
Query Match 100.0%; Score 12; DB 21; Length 28;

Best Local Similarity 100.0%; Pred. No. 2.1e+03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGGAG 12
DB 6 GCCTCTGGGGAG 17

RESULT 4

AAA87948 standard; DNA; 28 BP.

AAA87948;

07-DEC-2000 (first entry)

Beta-3-AR segment B mutational analysis oligonucleotide SEQ ID NO:47.

Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter; regulation; identification; trans-activating factor; drug screening; gene expression regulation; obesity; type II diabetes; mutation; ss.

Homo sapiens.

MO200044901-A1.

03-AUG-2000.

01-FEB-2000; 2000WO-US02632.

01-FEB-1999; 99US-0243335.

(AMHP) AMERICAN HOME PROD CORP.

Susulic VS, Duzic E;

WPI; 2000-482973/42.

New isolated nucleic acid useful for screening assays to identify compounds capable of regulating beta3-AR (adrenergic receptor) expression, is composed of three regulatory segments -

Example 1; Fig 7; 88bp; English.

The present invention describes a core nucleotide sequence from the B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory region. The core nucleotide sequence binds to a B-segment-binding trans-activating factor. Recombinant vectors under control of the transcription regulation region comprising nucleotide sequences containing the core nucleotide sequence from the B segment of the human beta-3-AR regulatory region provide a substrate for high throughput assays, particularly reporter gene assays to identify compounds capable of increasing or decreasing the level of expression of beta-3-AR. The nucleotide sequences can be used for regulating gene expression and for drug screening. It is envisaged that beta-3-AR stimulation may have beneficial effects in the treatment of obesity and type II diabetes. The present sequence represents a human beta-3-AR segment B mutational analysis oligonucleotide, which is used in the exemplification of the present invention.

Sequence 28 BP; 6 A; 9 C; 9 G; 4 T; 0 other;

Query Match 100.0%; Score 12; DB 21; Length 28;

Best Local Similarity 100.0%; Pred. No. 2.1e+03;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GCCTCTGGGGAG 12

6 GCCTCTGGGGAG 17

RESULT 5
AAA87949

ID AAA87949 standard; DNA; 28 BP.

AAA87949;

07-DEC-2000 (first entry)

Beta-3-AR segment B mutational analysis oligonucleotide SEQ ID NO:48.

Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter; regulation; identification; trans-activating factor; drug screening; gene expression regulation; obesity; type II diabetes; mutation; ss.

Homo sapiens.

MO200044901-A1.

03-AUG-2000.

01-FEB-2000; 2000WO-US02632.

01-FEB-1999; 99US-0243335.

(AMHP) AMERICAN HOME PROD CORP.

Susulic VS, Duzic E;

WPI; 2000-482973/42.

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Example 1; Fig 7; 88bp; English.

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Sequence 28 BP; 5 A; 7 C; 11 G; 5 T; 0 other;

Query Match 100.0%; Score 12; DB 21; Length 28;

Best Local Similarity 100.0%; Pred. No. 2.1e+03;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GCCTCTGGGGAG 12

6 GCCTCTGGGGAG 17

RESULT 6

ABA76256 standard; DNA; 113 BP.

ABA76256;

01-FEB-2002 (first entry)

Human foetal liver single exon nucleic acid probe #24561.

Human; foetal liver; gene expression; single exon nucleic acid probe; ss.

OS	Homo sapiens.
XX	
PN	MO200157277-A2.
XX	
ED	09-AUG-2001.
XX	
PF	30-JAN-2001; 2001WO-US00669.
XX	
PR	04-FEB-2000; 2000US-0180312.
XX	
PR	26-MAY-2000; 2000US-0207456.
XX	
PR	30-JUN-2000; 2000US-0608408.
XX	
PR	03-AUG-2000; 2000US-0632366.
XX	
PR	21-SEP-2000; 2000US-0234687.
XX	
PR	27-SEP-2000; 2000US-0236359.
XX	
PR	04-OCT-2000; 2000GB-0024263.
PA	(MOLE-) MOLECULAR DYNAMICS INC.
XX	
P1	Penn SG, Hanzel DK, Chen W, Rank DR;
XX	
WI	WPI; 2001-483447/52.
PT	Human genome-derived single exon nucleic acid probes useful for
PT	analyzing gene expression in human fetal liver.
XX	
PS	Claim 4; SEQ ID NO 24561; 639pp + sequence listing; English.
XX	
CC	The invention relates to a single exon nucleic acid probe for
CC	measuring human gene expression in a sample derived from human foetal,
CC	liver. The single exon nucleic acid probes may be used for predicting,
CC	measuring and displaying gene expression in samples derived from human,
CC	fetal liver. The present sequence is a single exon nucleic acid
CC	probe of the invention.
CC	Note: The sequence data for this patent did not form part of the
CC	printed specification, but was obtained in electronic format directly
CC	from WIPO at ftp.wipo.int/pub/published_pct_sequences.
SO	Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;
Query Match	100.0%; Score 12; DB 22; Length 113;
Best Local Similarity	100.0%; Pred. No. 2e+03;
Matches 12; Conservative	0; Mismatches 0; Indels 0; Gaps 0
OY	1 GCCTCTGGGAG 12
DB	94 GCCTCTGGGAG 105
LT 7	
ID	ABR40796 standard; DNA; 113 BP.
AC	ABR40796;
XX	
DT	23-JAN-2002 (first entry)
XX	
DE	Probe #19262 for gene expression analysis in human heart cell sample.
XX	
KM	Human; gene expression; heart; microarray; vascular system; probe;
KM	cardiovascular disease; hypertension; cardiac arrhythmia;
XX	
XX	congenital heart disease; ss.
OS	Homo sapiens.
XX	
PN	WO200157274-A2.
PD	
XX	
PD	09-AUG-2001.
XX	
PF	30-JAN-2001; 2001WO-US00666.
XX	
PR	04-FEB-2000; 2000US-0180312.
XX	
PR	26-MAY-2000; 2000US-0207456.
XX	
PR	30-JUN-2000; 2000US-0608408.

```

XX 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX PA
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX DR
XX WPI: 2001-488899/53.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
XX hearts -
XX
XX Claim 4; SEQ ID No 19262; 530bp; English.
XX
XX The present invention relates to single exon nucleic acid probes for
XX measuring human gene expression in a sample derived from human heart. The
XX present sequence is one such probe. The probes may be used for
XX predicting, measuring and displaying gene expression in samples derived
XX from the human heart via microarrays. By measuring gene expression, the
XX probes are useful for predicting, diagnosing, grading, staging,
XX monitoring and prognosing diseases of the human heart and vascular system
XX e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
XX congenital heart disease.
XX
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;
XX
XX Query Match 100.0%; Score 12; DB 22; Length 113;
XX Best Local Similarity 100.0%; Pred. No. 2e+03;
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 GCCTCTGGGAG 12
XX |||||
XX 94 GCCTCTGGGAG 105
XX
XX Db
XX
XX RESULT 8
XX AAK24907
XX ID AAK24907 standard; DNA; 113 BP.
XX
XX AAK24907;
XX AC
XX DT 05-NOV-2001 (first entry)
XX XX
XX DE Human brain expressed single exon probe SEQ ID NO: 24899.
XX
XX Human; brain expressed exon; gene expression analysis; probe;
XX microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
XX epilepsy; cancer; ss.
XX
XX Homo sapiens.
XX OS
XX MO200157275-A2.
XX PN
XX XX
XX 09-AUG-2001.
XX PD
XX PF 30-JAN-2001; 2001WO-US00667.
XX XX
XX 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX PA
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX DR
XX WPI: 2001-488899/53.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
XX hearts -
XX
XX Claim 4; SEQ ID No 19262; 530bp; English.
XX
XX The present invention relates to single exon nucleic acid probes for
XX measuring human gene expression in a sample derived from human heart. The
XX present sequence is one such probe. The probes may be used for
XX predicting, measuring and displaying gene expression in samples derived
XX from the human heart via microarrays. By measuring gene expression, the
XX probes are useful for predicting, diagnosing, grading, staging,
XX monitoring and prognosing diseases of the human heart and vascular system
XX e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
XX congenital heart disease.
XX
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;
XX
XX Query Match 100.0%; Score 12; DB 22; Length 113;
XX Best Local Similarity 100.0%; Pred. No. 2e+03;
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 GCCTCTGGGAG 12
XX |||||
XX 94 GCCTCTGGGAG 105
XX
XX Db
XX
XX RESULT 8
XX AAK24907
XX ID AAK24907 standard; DNA; 113 BP.
XX
XX AAK24907;
XX AC
XX DT 05-NOV-2001 (first entry)
XX XX
XX DE Human brain expressed single exon probe SEQ ID NO: 24899.
XX
XX Human; brain expressed exon; gene expression analysis; probe;
XX microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
XX epilepsy; cancer; ss.
XX
XX Homo sapiens.
XX OS
XX MO200157275-A2.
XX PN
XX XX
XX 09-AUG-2001.
XX PD
XX PF 30-JAN-2001; 2001WO-US00667.
XX XX
XX 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX PA
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX DR
XX WPI: 2001-488899/53.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
XX hearts -
XX
XX Claim 4; SEQ ID No 19262; 530bp; English.
XX
XX The present invention relates to single exon nucleic acid probes for
XX measuring human gene expression in a sample derived from human heart. The
XX present sequence is one such probe. The probes may be used for
XX predicting, measuring and displaying gene expression in samples derived
XX from the human heart via microarrays. By measuring gene expression, the
XX probes are useful for predicting, diagnosing, grading, staging,
XX monitoring and prognosing diseases of the human heart and vascular system
XX e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
XX congenital heart disease.
XX
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;
XX
XX Query Match 100.0%; Score 12; DB 22; Length 113;
XX Best Local Similarity 100.0%; Pred. No. 2e+03;
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 GCCTCTGGGAG 12
XX |||||
XX 94 GCCTCTGGGAG 105
XX
XX Db
XX
XX RESULT 8
XX AAK24907
XX ID AAK24907 standard; DNA; 113 BP.
XX
XX AAK24907;
XX AC
XX DT 05-NOV-2001 (first entry)
XX XX
XX DE Human brain expressed single exon probe SEQ ID NO: 24899.
XX
XX Human; brain expressed exon; gene expression analysis; probe;
XX microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
XX epilepsy; cancer; ss.
XX
XX Homo sapiens.
XX OS
XX MO200157275-A2.
XX PN
XX XX
XX 09-AUG-2001.
XX PD
XX PF 30-JAN-2001; 2001WO-US00667.
XX XX
XX 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX PA
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX DR
XX WPI: 2001-488899/53.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
XX hearts -
XX
XX Claim 4; SEQ ID No 19262; 530bp; English.
XX
XX The present invention relates to single exon nucleic acid probes for
XX measuring human gene expression in a sample derived from human heart. The
XX present sequence is one such probe. The probes may be used for
XX predicting, measuring and displaying gene expression in samples derived
XX from the human heart via microarrays. By measuring gene expression, the
XX probes are useful for predicting, diagnosing, grading, staging,
XX monitoring and prognosing diseases of the human heart and vascular system
XX e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
XX congenital heart disease.
XX
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;
XX
XX Query Match 100.0%; Score 12; DB 22; Length 113;
XX Best Local Similarity 100.0%; Pred. No. 2e+03;
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 GCCTCTGGGAG 12
XX |||||
XX 94 GCCTCTGGGAG 105
XX
XX Db
XX
XX RESULT 8
XX AAK24907
XX ID AAK24907 standard; DNA; 113 BP.
XX
XX AAK24907;
XX AC
XX DT 05-NOV-2001 (first entry)
XX XX
XX DE Human brain expressed single exon probe SEQ ID NO: 24899.
XX
XX Human; brain expressed exon; gene expression analysis; probe;
XX microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
XX epilepsy; cancer; ss.
XX
XX Homo sapiens.
XX OS
XX MO200157275-A2.
XX PN
XX XX
XX 09-AUG-2001.
XX PD
XX PF 30-JAN-2001; 2001WO-US00667.
XX XX
XX 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX PA
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX DR
XX WPI: 2001-488899/53.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
XX hearts -
XX
XX Claim 4; SEQ ID No 19262; 530bp; English.
XX
XX The present invention relates to single exon nucleic acid probes for
XX measuring human gene expression in a sample derived from human heart. The
XX present sequence is one such probe. The probes may be used for
XX predicting, measuring and displaying gene expression in samples derived
XX from the human heart via microarrays. By measuring gene expression, the
XX probes are useful for predicting, diagnosing, grading, staging,
XX monitoring and prognosing diseases of the human heart and vascular system
XX e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
XX congenital heart disease.
XX
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;
XX
XX Query Match 100.0%; Score 12; DB 22; Length 113;
XX Best Local Similarity 100.0%; Pred. No. 2e+03;
XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 GCCTCTGGGAG 12
XX |||||
XX 94 GCCTCTGGGAG 105
XX
XX Db
XX
XX RESULT 8
XX AAK24907
XX ID AAK24907 standard; DNA; 113 BP.
XX
XX AAK24907;
XX AC
XX DT 05-NOV-2001 (first entry)
XX XX
XX DE Human brain expressed single exon probe SEQ ID NO: 24899.
XX
XX Human; brain expressed exon; gene expression analysis; probe;
XX microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;
XX epilepsy; cancer; ss.
XX
XX Homo sapiens.
XX OS
XX MO200157275-A2.
XX PN
XX XX
XX 09-AUG-2001.
XX PD
XX PF 30-JAN-2001; 2001WO-US00667.
XX XX
XX 04-FEB-
```

XX WPI; 2001-483446/52.
XX
XX Single exon nucleic acid probes for analyzing gene expression in human
PT brain -
XX
PS Example 4; SEQ ID NO: 24898; 650pp + Sequence Listing; English.
XX
CC The present invention provides a number of single exon nucleic acid
CC probes which are derived from genomic sequences expressed in the human
CC brain. They can be used to measure gene expression in brain cell samples,
CC which may enable the diagnosis and improved treatment of nervous system
CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
CC epilepsy and cancers. The present sequence is one of the probes of the
CC invention.
XX
SQ Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;
XX
Query Match 100.0%; Score 12; DB 22; Length 113;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
OY 1 GCCTCTGGGAG 12
|||
94 GCCTCTGGGAG 105
DB
RESULT 9
AAK50902
ID AAK50902 standard; DNA; 113 BP.
XX
XX AAK50902;
XX
DT 06-NOV-2001 (first entry)
XX
XX Human bone marrow expressed single exon probe SEQ ID NO: 25450.
XX
XX Human bone marrow expressed exon; gene expression analysis; probe;
XX microarray; cancer; leukaemia; lymphoma; myeloma; ss.
XX
XX Homo sapiens.
XX
XX WO200157276-A2.
XX
XX 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US00668.
XX
XX 04-FEB-2000; 2000US-0180312.
XX 26-MAY-2000; 2000US-0207456.
XX 30-JUN-2000; 2000US-0608408.
XX 03-AUG-2000; 2000US-0632366.
XX 21-SEP-2000; 2000US-0234687.
XX 27-SEP-2000; 2000US-0236359.
XX 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-488900/53.
XX
XX Human genome-derived single exon nucleic acid probes useful for
XX analyzing gene expression in human bone marrow -
XX
XX Example 4; SEQ ID NO: 25459; 658bp + Sequence Listing; English.
XX
XX The present invention provides a number of single exon nucleic acid
XX probes which are derived from genomic sequences expressed in the human
XX bone marrow. They can be used to measure gene expression in bone marrow
XX samples, which may enable the improved diagnosis and treatment of cancers
XX such as lymphoma, leukaemia and myeloma. The present sequence is one of
XX the probes of the invention.

XX
SQ Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;
XX
Query Match 100.0%; Score 12; DB 22; Length 113;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
OY 1 GCCTCTGGGAG 12
|||
94 GCCTCTGGGAG 105
DB
RESULT 10
AAI27940
ID AAI27940 standard; DNA; 113 BP.
XX
XX AAI27940;
XX
DT 12-OCT-2001 (first entry)
XX
XX Probe #17873 for gene expression analysis in human cervical cell sample.
XX
XX Probe; human; microarray; gene expression; cervical epithelial cell;
XX cervical cancer; ss.
XX
XX Homo sapiens.
XX
XX WO200157278-A2.
XX
XX 09-AUG-2001.
XX
XX 30-JAN-2001; 2001WO-US00670.
XX
XX 04-FEB-2000; 2000US-0180312.
XX 26-MAY-2000; 2000US-0207456.
XX 30-JUN-2000; 2000US-0608408.
XX 03-AUG-2000; 2000US-0632366.
XX 21-SEP-2000; 2000US-0234687.
XX 27-SEP-2000; 2000US-0236359.
XX 04-OCT-2000; 2000GB-0024263.
XX
XX (MOLE-) MOLECULAR DYNAMICS INC.
XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-488901/53.
XX
XX Human genome-derived single exon nucleic acid probes useful for
XX analyzing gene expression in human cervical epithelial cells -
XX
XX Claim 25; SEQ ID NO 17873; 487pp; English.
XX
XX The present invention relates to human single exon nucleic acid probes
XX (SENPs). The present sequence is one such probe. The SENPs are derived
XX from human HeLa cells. The SENPs can be used to produce a single exon
XX microarray, which can be used for measuring human gene expression in a
XX sample derived from human cervical epithelial cells. By measuring gene
XX expression, the probes are therefore useful in grading and/or staging
XX of diseases of the cervix, notably cervical cancer.
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;
XX
Query Match 100.0%; Score 12; DB 22; Length 113;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
OY 1 GCCTCTGGGAG 12
|||
94 GCCTCTGGGAG 105
DB

RESULT 11
 ABS24411
 ID ABS24411 standard; DNA; 113 BP.
 AC
 XX ABS24411;
 DT 19-AUG-2002 (first entry)
 DE Human genome-derived single exon probe ORF from lung SEQ ID No 24402.
 XX
 KW Human; de; single exon probe; asthma; lung cancer; COPD; ILD;
 KW chronic obstructive pulmonary disease; interstitial lung disease;
 KW familial idiopathic pulmonary fibrosis; neurofibromatosis;
 KW tuberous sclerosis; Gaucher's disease; Niemann-Pick disease;
 KW Hermansky-Pudlak syndrome; sarcoidosis; Niemann-Pick disease;
 KW pulmonary histiocytosis; lymphangioleiomyomatosis; Karagener syndrome;
 KW pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;
 KW primary ciliary dyskinesia; pulmonary hypertension;
 KW hyaline membrane disease; open reading frame; ORF.
 XX
 XX Homo sapiens.
 PN WO200186003-A2.
 PD 15-NOV-2001.
 PF 30-JAN-2001; 2001MO-US00665.
 XX
 XX 04-FEB-2000; 2000US-180312P.
 XX 26-MAY-2000; 2000US-207456P.
 XX 30-JUN-2000; 2000US-0608408.
 XX 03-AUG-2000; 2000US-0632366.
 XX 21-SEP-2000; 2000US-234687P.
 XX 27-SEP-2000; 2000US-236359P.
 XX 04-OCT-2000; 2000GB-0024263.
 XX
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 XX Penn SG, Hanzel DK, Chen W, Rank DR;
 PI WPI; 2002-114183/15.
 DR
 XX Spatially-addressable set of single exon nucleic acid probes, used to
 XX measure gene expression in human lung samples -
 PS Claim 4; SEQ ID No 24402; 634bp; English.
 XX

The invention relates to a spatially-addressable set of single exon
 nucleic acid probes for measuring gene expression in a sample derived
 from human lung comprising single exon nucleic acid probes having one of
 12614 nucleic acid sequences mentioned in the specification, or their
 complements or the 12387 open reading frames derived from the 12614
 probes. Also included are a microarray comprising the novel set of
 probes; the novel set of probes which hybridize at high stringency to a
 nucleic acid expressed in the human lung; measuring gene expression in a
 sample derived from human lung, comprising (a) contacting the array with
 a collection of detectably labeled nucleic acids derived from human lung
 mRNA, and (b) measuring the label detectably bound to each probe of
 the array; identifying exons in a eukaryotic genome, comprising
 (a) algorithmically predicting at least one exon from genomic sequences
 of the eukaryote; and (b) detecting specific hybridisation of detectably
 labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
 having a fragment identical to the predicted exon, the probe is included
 in the above mentioned microarray; assigning exons to a single gene,
 comprising (a) identifying exons from genomic sequence by the method
 above and (b) measuring the expression of each of the exons in several
 tissues and/or cell types using hybridisation to a single exon
 microarrays having a probe with the exon, where a common pattern of
 expression of the exons in the tissues and/or cell types indicates that
 the exons should be assigned to a single gene; a peptide comprising one
 of 12011 sequences, mentioned in the specification, or encoded by the
 probes/open reading frames (ORF). The probes are used for gene

expression analysis, and for identifying exons in a gene, particularly
 using human lung derived mRNA and for the study of lung diseases
 such as asthma, lung cancer, chronic obstructive pulmonary disease
 (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary
 fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,
 Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary
 haemosiderosis, pulmonary histiocytosis, lymphangioleiomyomatosis,
 pulmonary alveolar proteinosis, Karagener syndrome, fibrocystic
 pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension
 and hyaline membrane disease. The present sequence is a single exon
 probe open reading frame of the invention.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp://ipo.int/pub/published_pct_sequences.
 CC
 XX
 SQ Sequence 113 BP; 7 A; 44 C; 29 G; 33 T; 0 other;
 Query Match 100.0%; Score 12; DB 24; Length 113;
 Best Local Similarity 100.0%; Pred. No. 2e+03;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GCCTCTGGGAG 12
 Db 94 GCCTCTGGGAG 105
 RESULT 12
 ID AAA87904
 XX AAA87904 standard; DNA; 200 BP.
 AC
 XX AAA87904;
 DT 07-DEC-2000 (first entry)
 DE Human beta-3-adrenergic receptor 5' flanking region SEQ ID NO:3.
 XX
 KW Human; beta-3-adrenergic receptor; beta-3-AR; transcription; promoter;
 KW regulation; identification; trans-activating factor; drug screening;
 KW gene expression regulation; obesity; type II diabetes; ds.
 XX
 XX Homo sapiens.
 OS
 XX
 XX WO200044901-A1.
 XX 03-AUG-2000.
 PD
 XX
 XX 01-FEB-2000; 2000MO-US02632.
 PF
 XX
 XX 01-FEB-1999; 99US-0243335.
 PR
 XX (AMHP) AMERICAN HOME PROD CORP.
 PA
 XX
 PI Suesilic VS, Duzic E;
 DT WPI; 2000-482973/42.
 DR
 XX
 XX New isolated nucleic acid useful for screening assays to identify
 FT compounds capable of regulating beta-AR (adrenergic receptor)
 FT expression, is composed of three regulatory segments -
 PS Claim 10; Fig 6A; 88bp; English.
 XX
 CC The present invention describes a core nucleotide sequence from the
 CC B segment of the human beta-3-adrenergic receptor (beta-3-AR) regulatory
 CC region. The core nucleotide sequence binds to a B-segment-binding
 CC trans-activating factor. Recombinant vectors under control of the
 CC transcription regulation region comprising nucleotide sequences
 CC containing the core nucleotide sequence from the B segment of the human
 CC beta-3-AR regulatory region provide a substrate for high throughput
 CC assays, particularly reporter gene assays to identify compounds capable
 CC of increasing or decreasing the level of expression of beta-3-AR. The
 CC nucleotide sequences can be used for regulating gene expression and for

CC drug screening. It is envisaged that beta-3-AR stimulation may have
 CC beneficial effects in the treatment of obesity and type II diabetes.
 CC The present sequence represents the human beta-3-adrenergic receptor 5'
 CC flanking region, which is used in the exemplification of the present
 CC invention.

XX Sequence 200 BP; 25 A; 70 C; 37 G; 68 T; 0 other;

Query Match 100.0%; Score 12; DB 21; Length 200;

Best Local Similarity 100.0%; Pred. No. 2e+03; Mismatches 0; Indels 0; Gaps 0;

Matches 12; Conservative 0; Indels 0; Gaps 0;

Db 61 GCCTCTGGGAG 72

RESULT 13

AC15250/c AAC15250 standard; cDNA; 227 BP.

AC15250;

DT 06-OCT-2000 (first entry)

DE Human secreted protein 5' EST, SEQ ID NO: 19325.

KM Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;

OS Homo sapiens.

PN EPI033401-A2.

PD 06-SEP-2000.

PF 21-FEB-2000; 2000EP-0200610.

PR 26-FEB-1999; 98US-0122487.

XX (GSET) GENSET.

PI Dumas Milne Edwards J, Duclert A, Giordano J;

XX WPI: 2000-500381/45.

PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 PT obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for
 PT diagnostic, forensic, gene therapy and chromosome mapping procedures -

PS Claim 1; SEQ ID 19325; 71pp + CD-ROM; English.

XX The present sequence is one of a large number of 5' ESTs derived from
 CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
 CC identified within the present sequence. The 5' ESTs were prepared from
 CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST
 CC sequences usually correspond mainly to the 3' untranslated region (UTR)
 CC of the mRNA because they are often obtained from oligo-dT primed cDNA
 CC libraries. Such ESTs are not well suited for isolating cDNA sequences
 CC derived from the 5' ends of mRNAs and even in those cases where longer
 CC cDNA sequences have been obtained, the full 5' UTR is rarely included.
 CC 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be
 CC used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used
 CC in diagnostic, forensic, gene therapy and chromosome mapping procedures;
 CC they are used to obtain upstream regulatory sequences and to design
 CC expression and secretion vectors.

XX Sequence 227 BP; 50 A; 53 C; 67 G; 53 T; 4 other;

Query Match 100.0%; Score 12; DB 21; Length 227;

Best Local Similarity 100.0%; Pred. No. 2e+03; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCTCTGGGAG 12

Db 169 GCCTCTGGGAG 158

RESULT 14

AAS30782 AAC30782 standard; cDNA; 234 BP.

AC AAS30782;

DT 04-DEC-2001 (first entry)

DE Human cDNA encoding G protein-coupled receptor nGPR-83.

KM Human; G protein-coupled receptor; nGPR-x; ss; antiviral; analgesic;
 KM cytoskeletal; cardiac; antidiabetic; anorectic; hypotensive; hypertensive;
 KM antiparkinsonian; nootropic; neuroprotective; antidepressant;
 KM viral infection; HIV-1; human immunodeficiency virus; HIV-2; pain;
 KM cancer; metabolic disease; cardiovascular disease; type 2 diabetes;
 KM obesity; anorexia; hypotension; hypertension; myocardial infarction;
 KM atherosclerosis; Parkinson's disease; psychosis; neurological disorder;
 KM schizophrenia; migraine; major depression; anxiety; mental disorder;
 KM manic depression; dyskinesia; Huntington's disease; Tourette's Syndrome.

OS Homo sapiens.

PN WO200166750-A2.

PD 13-SEP-2001.

PF 08-MAR-2001; 2001WO-US07332.

PR 08-MAR-2000; 2000US-0187581.

PR 08-MAR-2000; 2000US-0187582.

PR 08-MAR-2000; 2000US-0187714.

PR 08-MAR-2000; 2000US-0187715.

PR 08-MAR-2000; 2000US-0187825.

PR 08-MAR-2000; 2000US-0187828.

PR 08-MAR-2000; 2000US-0187829.

PR 08-MAR-2000; 2000US-0187830.

PR 08-MAR-2000; 2000US-0187833.

PR 08-MAR-2000; 2000US-0187874.

PR 08-MAR-2000; 2000US-0187930.

PR 08-MAR-2000; 2000US-0188049.

PR 08-MAR-2000; 2000US-0189294.

PR 08-MAR-2000; 2000US-0189299.

PR 08-MAR-2000; 2000US-0189299.

PR 08-MAR-2000; 2000US-0189299.

PR 08-MAR-2000; 2000US-0189299.

PR 08-MAR-2000; 2000US-0189299.

PR 08-MAR-2000; 2000US-0189299.

PR 08-MAR-2000; 2000US-0189299.

PS Claim 4; Page 201; 336pp; English.

XX The invention relates to novel isolated nucleic acid molecules encoding
 CC G protein-coupled receptors termed nGPR-x. nGPR-x polynucleotides,
 CC polypeptides, and modulators may be used in the treatment of diseases and
 CC conditions such as infections, such as viral infections caused by HIV-1
 CC (human immunodeficiency virus) or HIV-2, pain, cancer, metabolic and
 CC cardiovascular diseases and disorders (e.g., type 2 diabetes, obesity,
 CC anorexia, hypotension, hypertension, myocardial infarction,
 CC atherosclerosis), Parkinson's disease, and psychotic and
 CC neurological disorders, including schizophrenia, migraine, major
 CC depression, anxiety, mental disorder, manic depression, and

CC dyskinetias, such as Huntington's disease or Tourette's Syndrome
CC and many other diseases and syndromes listed in the specification.
CC NGPCR-X polynucleotides and polypeptides, as well as NGPCR-X
CC modulators, may also be used in diagnostic assays for such diseases or
CC conditions. The present sequence encodes a G protein-coupled
CC receptor of the invention.
XX
SQ Sequence 234 BP; 56 A; 64 C; 65 G; 49 T; 0 other;
Query Match 100.0%; Score 12; DB 22; Length 234;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCCTCTGGGGAG 12
Db 100 GCCTCTGGGGAG 111
RESULT 15
ABN1401
ABN21401 standard; cDNA; 289 BP.
AC ABN21401;
DT 24-JUN-2002 (first entry)
DE Human ORFX polynucleotide sequence SEQ ID NO:11279.
XX
XX Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis;
KM hyperproliferative disorder; psoriasis; benign tumour; haemorrhage;
KM degenerative disorder; osteoarthritis; neurodegenerative disorder;
KM cardiovascular disease; diabetes mellitus; systemic lupus erythematosus;
KM hypertension; hypothyroidism; cholesterol ester storage disease;
KM immune deficiency; immune disorder; infectious disease;
KM autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
KM myasthenia gravis; gene; ss.
OS Homo sapiens.
XX
XX WO200192523-A2.
PN
XX
PD 06-DEC-2001.
XX
XX 29-MAY-2001; 2001WO-US10836.
PF
XX 30-MAY-2000; 2000US-206132P.
PR
XX 29-AUG-2000; 2000US-228716P.
PR
XX (CURA-) CURAGEN CORP.
XX
XX Shinketsu RA, Leach MD;
PI
XX
XX MPI: 2002-106308/14.
DR
XX P-PSDB: ABB05649.
XX
XX Novel human polypeptides and polynucleotides useful for diagnosing,
PT preventing and treating cardiovascular disease, neurodegenerative,
PT hyperproliferative disorders and autoimmune disorders
XX
PS Disclosure; SEQ ID 11279; 1037bp; English.
XX
XX The present invention describes substantially purified human proteins
CC (referred to as open reading frame, ORFX, where X is 1-11491 (see Table 1
CC in the specification). ABN15762 to ABN27252 encode the human ORFX
CC proteins given in ABB00010 to ABB11500. ORFX proteins are useful for
CC treating or preventing a pathology associated with an ORFX-associated
CC disorder in humans, and in the manufacture of a medicament for treating a
CC syndrome associated with ORFX-associated disorder. ORFX polynucleotide
CC sequences can be used in gene therapy. ORFX sequences can be used in the
CC treatment of cancer, hyperproliferative disorders, cirrhosis of liver,
CC psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage,
CC osteoarthritis, neurodegenerative disorders, disorders related to organ
CC transplantation, cardiovascular diseases, diabetes mellitus, systemic

CC lupus erythematosus, hypertension, hypothyroidism, cholesterol ester
CC storage disease, various immune deficiencies and disorders, infectious
CC diseases, autoimmune disorders such as multiple sclerosis, rheumatoid
CC arthritis, autoimmune thyroiditis, myasthenia gravis, graft-versus-host
CC disease and autoimmune inflammatory eye disease. ORFX proteins are also
CC useful for treating burns, incisions, ulcers, for treating osteoporosis,
CC bone degenerative disorders, or periodontal disease, and for gut
CC protection or regeneration and treatment of lung or liver fibrosis,
CC reperfusion injury in various tissues and conditions resulting from
CC N.B. The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 289 BP; 45 A; 75 C; 117 G; 52 T; 0 other;
Query Match 100.0%; Score 12; DB 24; Length 289;
Best Local Similarity 100.0%; Pred. No. 2e+03;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCCTCTGGGGAG 12
Db 31 GCCTCTGGGGAG 42

Search completed: June 12, 2003, 10:48:27
Job time : 210 secs

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OM nucleic - nucleic search, using 6w model

Run on: June 12, 2003, 10:39:36 ; Search time 64 Seconds
(without alignments)
57.502 Million cell updates/sec

Title: US-09-761-116-1

Perfect score: 12

Sequence: 1 ggcctcggggag 12

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 15338381 residues

1 number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents, NA:*

- 1: /cgn2_6/pdata/2/ina/5A.COMB.seq:*
- 2: /cgn2_6/pdata/2/ina/5B.COMB.seq:*
- 3: /cgn2_6/pdata/2/ina/6A.COMB.seq:*
- 4: /cgn2_6/pdata/2/ina/6B.COMB.seq:*
- 5: /cgn2_6/pdata/2/ina/PCTUS.COMB.seq:*
- 6: /cgn2_6/pdata/2/ina/backfillseq1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	12	100.0	12	4	US-09-243-335-1
2	12	100.0	28	4	US-09-243-335-41
3	12	100.0	28	4	US-09-243-335-46
4	12	100.0	28	4	US-09-243-335-47
5	12	100.0	28	4	US-09-243-335-48
6	12	100.0	200	4	US-09-243-335-3
7	12	100.0	1279	1	US-08-146-010A-4
8	12	100.0	1279	1	US-08-674-168-9
9	12	100.0	1363	1	US-08-776-088-21
10	12	100.0	1363	5	PCT-US95-09145A-21
11	12	100.0	1820	4	US-09-732-199A-3
12	12	100.0	1868	4	US-09-739-455-1
13	12	100.0	1875	3	US-08-878-474-4
14	12	100.0	1878	4	US-09-332-025-1
15	12	100.0	1938	4	US-08-278-635B-1
16	12	100.0	1938	3	US-08-464-258B-1
17	12	100.0	1938	3	US-08-471-961-1
18	12	100.0	2109	4	US-09-370-838-153
19	12	100.0	2263	4	US-08-487-596-5
20	12	100.0	2274	2	US-08-466-589-5
21	12	100.0	2374	2	US-08-700-636-5
22	12	100.0	2374	3	US-08-467-574-5
23	12	100.0	2374	4	US-09-217-345-5
24	12	100.0	2540	1	US-08-446-919A-1
25	12	100.0	2577	2	US-08-209-521-25
26	12	100.0	2555	4	US-08-456-200B-10
27	12	100.0	4837	4	US-09-629-616-1

C	28	12	100.0	5176	4	US-09-182-024A-1	Sequence 1, Appl
C	29	12	100.0	5434	2	US-08-841-349-1	Sequence 1, Appl
C	30	12	100.0	7032	2	US-08-149-097D-24	Sequence 24, Appl
C	31	12	100.0	7032	3	US-08-949-386-24	Sequence 24, Appl
C	32	12	100.0	7032	3	US-08-450-562-24	Sequence 24, Appl
C	33	12	100.0	7032	4	US-08-984-709A-24	Sequence 24, Appl
C	34	12	100.0	7032	4	US-08-450-272-24	Sequence 24, Appl
C	35	12	100.0	7089	3	US-08-949-386-25	Sequence 25, Appl
C	36	12	100.0	7089	3	US-08-450-562-25	Sequence 25, Appl
C	37	12	100.0	7089	4	US-08-984-709A-25	Sequence 25, Appl
C	38	12	100.0	7089	4	US-08-450-272-25	Sequence 25, Appl
C	39	12	100.0	8285	4	US-09-732-025-3	Sequence 3, Appl
C	40	12	100.0	8310	3	US-08-870-126-11	Sequence 11, Appl
C	41	12	100.0	8310	4	US-09-445-247-11	Sequence 11, Appl
C	42	12	100.0	11827	4	US-09-739-455-3	Sequence 3, Appl
C	43	12	100.0	14985	1	US-08-652-972A-6	Sequence 6, Appl
C	44	12	100.0	14985	5	PCT-US96-06231A-6	Sequence 6, Appl
C	45	12	100.0	16389	4	US-09-741-154-3	Sequence 3, Appl

ALIGNMENTS

```
RESULT 1
US-09-243-335-1
; Sequence 1, Application US/09243335A
; Patent No. 6197580
; GENERAL INFORMATION:
; APPLICANT: American Home Products Corp.
; APPLICANT: Sausalic, Vedrana S.
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN
; FILE REFERENCE: 0630/0E791
; CURRENT APPLICATION NUMBER: US/09/243.335A
; CURRENT FILING DATE: 1999-02-01
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 12
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
US-09-243-335-1

Query Match      100.0%; Score 12; DB 4; Length 12;
Best Local Similarity 100.0%; Pred. No. 2; de+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      1  GCCTCTGGGAG 12
Db      1  GCCTCTGGGAG 12

RESULT 2
US-09-243-335-41
; Sequence 41, Application US/09243335A
; Patent No. 6197580
; GENERAL INFORMATION:
; APPLICANT: American Home Products Corp.
; APPLICANT: Sausalic, Vedrana S.
; TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN
; FILE REFERENCE: 0630/0E791
; CURRENT APPLICATION NUMBER: US/09/243.335A
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 41
; LENGTH: 28
; TYPE: DNA
```

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Oligonucleotide
US-09-243-335-41

Query Match 100.0%; Score 12; DB 4; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12
DB 6 GCCTCTGGGAG 17

RESULT 3
US-09-243-335-46
Sequence 46, Application US/09243335A
Patent No. 6197580
GENERAL INFORMATION:
APPLICANT: American Home Products Corp.
APPLICANT: Susulic, Vedrana S.
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN
FILE REFERENCE: 0630/0E791
CURRENT APPLICATION NUMBER: US/09/243,335A
CURRENT FILING DATE: 1999-02-01
NUMBER OF SEQ ID NOS: 49
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 46
LENGTH: 28
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Oligonucleotide
US-09-243-335-46

Query Match 100.0%; Score 12; DB 4; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12
DB 6 GCCTCTGGGAG 17

RESULT 4
US-09-243-335-47
Sequence 47, Application US/09243335A
Patent No. 6197580
GENERAL INFORMATION:
APPLICANT: American Home Products Corp.
APPLICANT: Susulic, Vedrana S.
APPLICANT: Duzic, Edmir
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN
FILE REFERENCE: 0630/0E791
CURRENT APPLICATION NUMBER: US/09/243,335A
CURRENT FILING DATE: 1999-02-01
NUMBER OF SEQ ID NOS: 49
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 47
LENGTH: 28
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Oligonucleotide
US-09-243-335-47

Query Match 100.0%; Score 12; DB 4; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12
DB 6 GCCTCTGGGAG 17

RESULT 5
US-09-243-335-48
Sequence 48, Application US/09243335A
Patent No. 6197580
GENERAL INFORMATION:
APPLICANT: American Home Products Corp.
APPLICANT: Susulic, Vedrana S.
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN
FILE REFERENCE: 0630/0E791
CURRENT APPLICATION NUMBER: US/09/243,335A
CURRENT FILING DATE: 1999-02-01
NUMBER OF SEQ ID NOS: 49
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 48
LENGTH: 28
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Oligonucleotide
US-09-243-335-48

Query Match 100.0%; Score 12; DB 4; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12
DB 6 GCCTCTGGGAG 17

RESULT 6
US-09-243-335-3
Sequence 3, Application US/09243335A
Patent No. 6197580
GENERAL INFORMATION:
APPLICANT: American Home Products Corp.
APPLICANT: Susulic, Vedrana S.
APPLICANT: Duzic, Edmir
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATION OF THE HUMAN
FILE REFERENCE: 0630/0E791
CURRENT APPLICATION NUMBER: US/09/243,335A
CURRENT FILING DATE: 1999-02-01
NUMBER OF SEQ ID NOS: 49
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 200
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
US-09-243-335-3

Query Match 100.0%; Score 12; DB 4; Length 200;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCTCTGGGAG 12
DB 61 GCCTCTGGGAG 72

RESULT 7
US-08-146-010A-4/c
Sequence 4, Application US/08146010A
Patent No. 5591577
GENERAL INFORMATION:

APPLICANT: TSUCHIYA, MAKOTO
APPLICANT: MORIYA, MIKO
APPLICANT: MIWA, KIYOSHI
TITLE OF INVENTION: MOBILE GENETIC ELEMENT ORIGINATED FROM
TITLE OF INVENTION: BREVIABACTERIUM STRAIN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/146,010A
FILING DATE: 12-NOV-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 52694/92
FILING DATE: 11-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-649-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1279 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Brevibacterium lactofermentum
STRAIN: AJ2256
FEATURE:
NAME/KEY: insertion_seq
LOCATION: 1..1279
US-08-146-010A-4
Query Match 100.0%; Score 12; DB 1; Length 1279;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCCTCTGGGGAG 12
Db 136 GCCTCTGGGGAG 125
RESULT 8
US-08-674-168-9/c
Sequence 9, Application US/08674168
Patent No. 5804414
GENERAL INFORMATION:
APPLICANT: MORIYA, Miko
APPLICANT: MATSUI, Hiroshi
APPLICANT: YOKOZAKI, Kenzo
APPLICANT: HIRANO, Seiko
APPLICANT: HAYAKAWA, Aetsushi
APPLICANT: IZUI, Masako
APPLICANT: SUGIMOTO, Masakazu
TITLE OF INVENTION: METHOD OF AMPLIFYING GENE USING
TITLE OF INVENTION: ARTIFICIAL TRANSPOSON
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:

ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
ADDRESSEE: P.C.
STREET: 1755 JEFFERSON DAVIS HIGHWAY, SUITE # 400
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/674,168
FILING DATE: 01-JUL-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7-166541
FILING DATE: 30-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-810-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1279 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Brevibacterium lactofermentum
STRAIN: AJ12036
FEATURE:
NAME/KEY: repeat_region
LOCATION: 1..114
NAME/KEY: repeat_region
LOCATION: 1266..1279
US-08-674-168-9
Query Match 100.0%; Score 12; DB 1; Length 1279;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCCTCTGGGGAG 12
Db 136 GCCTCTGGGGAG 125
RESULT 9
US-08-776-088-21/c
Sequence 21, Application US/08776088
Patent No. 5773579
GENERAL INFORMATION:
APPLICANT: Torczynski, Richard M.
APPLICANT: BOLLON, Arthur P.
TITLE OF INVENTION: Lung Cancer Marker
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: SIDLEY & AUSTIN
STREET: 1201 Elm Street, Suite 4500
CITY: Dallas
STATE: TX
COUNTRY: US
ZIP: 75270-2197
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/776.088
FILING DATE: 19-JUL-95
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Eugenia S. Hansen
REGISTRATION NUMBER: 31,966
REFERENCE/DOCKET NUMBER: 10365/05011
TELECOMMUNICATION INFORMATION:
TELEPHONE: 214-981-3300
TELEFAX: 214-981-3400
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 1363 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-776-088-21

Query Match 100.0%; Score 12; DB 1; Length 1363;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12
|||
DB 183 GCCTCTGGGAG 172

RESULT 10
PCT-US95-09145A-21/C
Sequence 21, Application PC/TUS9509145A
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Lung Cancer Marker
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: RICHARDS, MEDLOCK & ANDREWS
STREET: 1201 Elm Street, Suite 4500
CITY: Dallas
STATE: TX
COUNTRY: US
ZIP: 75270-2197
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/09145A
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: John A. Haire
REGISTRATION NUMBER: 37,345
REFERENCE/DOCKET NUMBER: B35792CIPCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 214-939-4500
TELEFAX: 214-939-4600
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 1363 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
PCT-US95-09145A-21

Query Match 100.0%; Score 12; DB 5; Length 1363;

Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12
|||
DB 183 GCCTCTGGGAG 172

RESULT 11
US-09-732-199A-3/C
Sequence 3, Application US/09732199A
Patent No. 6379960
GENERAL INFORMATION:
APPLICANT: Ian Popoff
TITLE OF INVENTION: ANTISENSE MODULATION OF DAMAGE-SPECIFIC DNA BINDING PROTEIN 2, P4
FILE REFERENCE: RTS-0214
CURRENT APPLICATION NUMBER: US/09/732.199A
CURRENT FILING DATE: 2000-12-06
NUMBER OF SEQ ID NOS: 57
SEQ ID NO 3
LENGTH: 1820
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (176)...(1459)
US-09-732-199A-3

Query Match 100.0%; Score 12; DB 4; Length 1820;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12
|||
DB 113 GCCTCTGGGAG 102

RESULT 12
US-09-739-455-1/C
Sequence 1, Application US/09739455
Patent No. 6413756
GENERAL INFORMATION:
APPLICANT: YAN, Chunhua et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
FILE REFERENCE: CL000653
CURRENT APPLICATION NUMBER: US/09/739.455
CURRENT FILING DATE: 2000-12-19
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 1868
TYPE: DNA
ORGANISM: Human
US-09-739-455-1

Query Match 100.0%; Score 12; DB 4; Length 1868;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12
|||
DB 794 GCCTCTGGGAG 783

RESULT 13
US-08-878-474-4/C
Sequence 4, Application US/08878474
Patent No. 6133232
GENERAL INFORMATION:

APPLICANT: De Robertis, Edward M.
APPLICANT: Boumester, Lewis
TITLE OF INVENTION: Endoderm, Cardiac and Neural Inducing
TITLE OF INVENTION: Factors
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Majestic, Parsons, Siebert & Haue
STREET: Four Embarcadero Center, Suite 1100
CITY: San Francisco
STATE: California
COUNTRY: U.S.A.
ZIP: 94111-4106
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/878,474
FILING DATE: 18-JUN-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/020,150
FILING DATE: 20-JUN-1996
ATTORNEY/AGENT INFORMATION:
NAME: Siebert, J. Suzanne
REGISTRATION NUMBER: 28,758
REFERENCE/DOCKET NUMBER: 3100.002US1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/248-5500
TELEFAX: 415/362-5418
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1875 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-878-474-4

Query Match 100.0%; Score 12; DB 3; Length 1875;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12
Db 769 GCCTCTGGGAG 758

RESULT 14
US-09-732-025-1/c
Sequence 1, Application US/09732025
Patent No. 6416990
GENERAL INFORMATION:
APPLICANT: Wei, Ming-Hui et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
FILE REFERENCE: C1001011
CURRENT APPLICATION NUMBER: US/09/732,025
CURRENT FILING DATE: 2000-12-07
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 1878
TYPE: DNA
ORGANISM: Human
US-09-732-025-1

Query Match 100.0%; Score 12; DB 4; Length 1878;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12
Db 808 GCCTCTGGGAG 797

RESULT 15
US-08-278-635B-1
Sequence 1, Application US/08278635B
Patent No. 5683912
GENERAL INFORMATION:
APPLICANT: ELGOYHEN, ANA BELEN
APPLICANT: JOHNSON, DAVID S.
APPLICANT: BOULTER, JAMES R.
APPLICANT: HEINEMANN, STEPHEN F.
TITLE OF INVENTION: CLONING AND EXPRESSION OF A NOVEL
TITLE OF INVENTION: ACETYLCHOLINE-GATED ION CHANNEL RECEPTOR
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: GRAY CARY WARE & FREIDENRICH
STREET: 4365 EXECUTIVE DRIVE, SUITE 1600
CITY: SAN DIEGO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 92121
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/278,635B
FILING DATE: 21-JUL-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: REITER, STEPHEN E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P41 9771
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-677-1409
TELEFAX: 619-677-1465
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1938 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
IMMEDIATE SOURCE:
CLONE: ALPHA 9
FEATURE:
NAME/KEY: CDS
LOCATION: 89..1525
US-08-278-635B-1

Query Match 100.0%; Score 12; DB 1; Length 1938;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCTCTGGGAG 12
Db 878 GCCTCTGGGAG 889

Search completed: June 12, 2003, 11:30:37
Job time : 65 secs

